AN ANALYSIS OF LIGHT VARIATIONS OF RS CANUM VENATICORUM BINARY SYSTEMS

By

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A DISSERTATION PRESENTED TO THE GRADUATE COUNCIL OF
THE UNIVERSITY OF FLORIDA
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
DEGREE OF DOCTOR OF PHILOSOPHY

UNIVERSITY OF FLORIDA

1981

ACKNOWLEDGEMENTS

I wish to thank the many people who have contributed to the completion of this work.

First, I would like to thank my parents, who provided the home environment that nurtured my intellectual and personal growth. Second, a warm thanks goes to my wife, Susan, who patiently spent many evenings alone while I was at the telescope, and who helped greatly with the final preparation of this dissertation.

Professionally, I would like to thank Dr. John P. Oliver for his guidance and encouragement throughout this research. Dr. Robert E. Wilson is to be thanked for his helpful comments and suggestions along the way. The other members of my supervisory committee are to be thanked, also. I would also like to express my appreciation to Dr. Robert J. Leacock, for making available the time necessary for me to complete this dissertation. A special thanks goes to those who have inspired me to pursue this career, especially Dr. Heinrich K. Eichhorn and Dr. Edward J. Devinney.

A special gratitude is expressed for the discussions with the many graduate students with whom I have had the pleasure of working. Particularly, I would like to thank Joseph Pollock, Laurence Twigg, Ronald Parise, Chris St. Cyr, and Gregory Fitzgibbons.

This work was partly supported by NSF grant number INT-76-80588. The computing was done utilizing the facilities of the Northeast Regional Data Center of the State University System, located on the campus of the University of Florida in Gainesville. Some computing was also done using the facilities of the Central Florida Regional Data Center at the University of South Florida in Tampa.

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Abstract of Dissertation Presented to the Graduate
Council of the University of Florida in Partial
Fulfillment of the Requirements for the Degree of
Doctor of Philosphy

AN ANALYSIS OF LIGHT VARIATIONS OF RS CANUM VENATICORUM BINARY SYSTEMS

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August 1981

Chairman: John P. Oliver
Major Department: Astronomy

Photoelectric data for fourteen RS Canum Venaticorum binary systems were obtained by the author from 1978 through 1981, at Rosemary Hill Observatory. These data are presented in the form of light curves and tabulated magnitudes and heliocentric Julian Dates. The outside-of-eclipse points for eight systems were Fourier analyzed for measurement of any distortion wave in the light curve. The wave in RS Canum Venaticorum itself was found to have moved half a phase unit in only two years. A wave was discovered in the light curve of RZ Eridani, and was found to have changed in a manner consistent with the starspot model for RS CVn systems. The light curve for UX Comae Bernices was found to have a large amount of intrinsic scatter, and the system was found to be anomalously bright on one night. These characteristics suggest that some type of flare activity may be

present in that system. The other five systems analyzed were found to have waves consistent with other published results, or to have no definite wave at all. The possibility of detecting spots and deriving spot sizes from secondary eclipse observations was also explored. For this purpose the Wilson-Devinney computer program for light curve synthesis was modified to allow spots on the secondary star. Comparison of computer synthesized secondary eclipses of spotted stars to actual observations showed that there is little chance of detecting fluctuations due to individual spots. It was found that there is even less chance for discriminating between a few large spots and a large number of smaller spots. However, the program did produce good fits to RS CVn light curves, using reasonable spot parameters.

CHAPTER I
INTRODUCTION

Historical Development

Over the last few decades there has evolved a defining set of observational characteristics constituting the RS Canum Venaticorum binaries. Struve (1946) discussed five eclipsing binary systems that showed H and K emission associated with the cooler (late G to early K) component. The list of candidates was expanded to 13 by Hiltner (1947), to 19 by Gratton (1950), to 22 by Popper (1970), and to 24 by Oliver (1974).

A list of observational characteristics originally proposed by Oliver was revised by Hall (1976) to provide a working definition for the group. The three characteristics shared by all members of the group are: (1) a period in the range of one day to two weeks, (2) the hotter component is of spectral type F or G and luminosity class V or IV ,and (3) strong H and K emission is observed outside eclipse. Systems satisfying these requirements are listed in Table 1. Hall additionally defined long-period and short-period groups (Tables 2 and 3).

Subsequent observations of these systems have revealed several other properties shared by many members. These include infrared and ultraviolet excesses, X-ray and radio emission, period changes, and light curve variations.

TABLE 1

RS CVN BINARIES

Name	Vmax (a)	Orbital Period(a)	Spectral Type hot + cool(a)	Dist. Wave Amp.(a)
UX Ari	6.5	6.438	G5V + K0IV	0.03-0.10
CQ Aur	9.0	10.621	G0 + ?	0.06-0.12(b)
SS Boo	10.3	7.606	dG5 + dG8	0.05-0.19
SS Cam	10.0	4.824	dF5 + dG1	0.11
RU Cnc	10.1	10.173	dF9 + dG9	0.02-0.09
RS CVn	8.4	4.498	F4V-IV + K0IV	0.05-0.20
AD Cap	9.8	6.118	G5 + G5(b)	?
UX Com	10.0	3.642	G5-9	0.10
RT CrB	10.2	5.117	G0	0.04
WW Dra	8.8	4.630	sgG2 + sgK0	0.06
Z Her	7.3	3.993	F4V-IV + K0IV	0.03
AW Her	9.7	8.801	G2IV + sgK2	?
MM Her	9.5	7.960	G8IV	0.06-0.12
PW Her	9.9	2.881	G0	0.12
GK Hya	9.4	3.587	G4	*
RT Lac	9.0	5.074	sgG9 + sgK1	0.01-0.17
AR Lac	6.9	1.983	G2IV + K0IV	0.04
RV Lib	9.0	10.722	G5 + K5	0.06
VV Mon	9.4	6.051	G0	0.01-0.09
LX Per	8.1	8.038	G0V + K0IV	0.01-0.05
SZ Psc	7.3	3.966	F8V + K1V-IV	0.02-0.15
TY Pyx	6.9	3.199	G5 + G5	0.04
V711 Tau	5.9	2.8	G5	0.07-0.21
RW UMa	10.2	7.328	dF9 + K1IV	0.11
RS UMi	10.1	6.2	F8	?
HR 1099	5.9	2.8	G5	0.07-0.21
HR 5110	5.0	2.613	F2IV + KIV	0.00
HD 5303	7.8	1.840	G2V + F0	0.3
HD 175742	8.4(c)	2.879	K0V + K5V-M2V	0.079
HD 178450	8.1(d)	2.185	G6V	0.033
HD 224085	7.6	6.724	K2-3IV-V	?
W92	11.7	0.745 (?)	K0IVp	0.04-0.10

Notes for Table 1

* Detected but not measured.
? Unknown.
a Unless otherwise noted, from Hall (1981).
b Hall (1981).
c Henry (1981a).
d Henry (1981b).

TABLE 2

THE LONG PERIOD GROUP

Name	Vmax (a)	Orbital Period (b)	Spectral Type hot + cool (b)	Dist. Wave Amp. (b)
ζ And	4.1	17.769	KIII	0.02
λ And	3.9	20.521	G8IV-III	0.3
α Aur	0.1	104.023	G0III + G5III	0.15
12 Cam	6.2	80.174	K0III	0.13-0.14(a)
RZ Cnc	8.7	21.643	K1III + K4III	0.01
RZ Eri	7.7	39.283(c)	A5-F5V + sgG8	?
σ Gem	4.2(d)	19.603(d)	? + K1III(d)	0.07(d)
HK Lac	6.5	24.428	FIV + K0III	0.10
AR Mon	8.6	21.207	F-G + K0II	0.01-0.09
ε UMi	4.2	39.481	dA8-dF0 + G5III	0.00(a)
HR 4665	5.4	64.44(a)	K0III+K0III(f)	0.08-0.18(a)
HR 7275	5.8	28.59	K1IV	0.15(a)
HR 7428	6.4	108.58	A + K2III-II	?
HR 8703	5.7	24.65	K1IV-IIIp	0.16
HD 158393	8.7	30.9	G8III	*
HD 213389	?	17.755	K2IV-IIIp	0.13
HD 83442	9.0(e)	?	K2IIIp	0.03(a)

Notes for Table 2

*	Detected but not measured.
?	Unknown.
a	Unless otherwise noted, from Hall (1981).
b	Unless otherwise noted, from Hall (1976).
c	Caton and Oliver (1979).
d	Eggen (1977).
e	Hall, et al. (1977).
f	Hall (1981).

TABLE 3

THE SHORT PERIOD GROUP

Name	Vmax (a)	Orbital Period (b)	Spectral Type hot + cool (b)	Dist. Wave Amp. (a)
RT And	9.0	0.629	F8V + G5V	0.02-0.06
SV Cam	8.4	0.593	G3V-IV + K3V	0.00-0.06
WY Cnc	9.5	0.829	G	0.02
CG Cyg	10.0	0.631	G9V-IV	0.03-0.11
UV Psc	9.1	0.861	G2	0.04-0.08
ER Vul	7.3	0.698	G0V + G5V	0.00-0.04
XY UMa	9.8	0.479 (c)	G2V + K5 (c)	0.0 - 0.2
HD 108102	8.2 (d)	0.962 (d)	F8V + G0V (e)	?

Notes for Table 3

? Unknown.
a) Unless otherwise noted, from Hall (1981).
b) Unless otherwise noted, from Hall (1976).
c) Mendoza (1967).
d) Kraft (1965).
e) Geyer (1976).

The variations in the light curves are particularly interesting (see Figure 1); this work examines some properties of these variations.

Various models have been proposed to account for many of the characteristics of the light curve variations. These models have employed rings of circumstellar matter (Catalano and Rodono 1967, 1968, 1974), pulsation (Popper 1977), and starspots (Hall 1972). The starspot model seems to have best withstood criticism and, to this author, seems to best explain the observations. Hall has accounted for almost all of the observed properties by creating a starspot model analogous to solar spot phenomena. Although his original paper (1972) is perhaps a bit too detailed in some of the treatment of the data, the basic spot concept seems quite acceptable.

The Starspot Model

The idea of spots causing light curve variations may be attributed to Kron (1947), who suggested "huge light and dark patches" as the cause of variations in AR Lacertae. His idea was that up to 20 percent of the visible hemisphere is covered with groups of patches, while individual patches only cover 3 to 5 percent of the area. Kron proposed that such patches might be the cause of a variety of phenomena, including asymmetries, skewness and "steps" in the eclipses.

Hall (1972) proposed his starspot model to explain a variety of photometric peculiarities in the class prototype, RS Canum Venaticorum. The main complication is a distortion

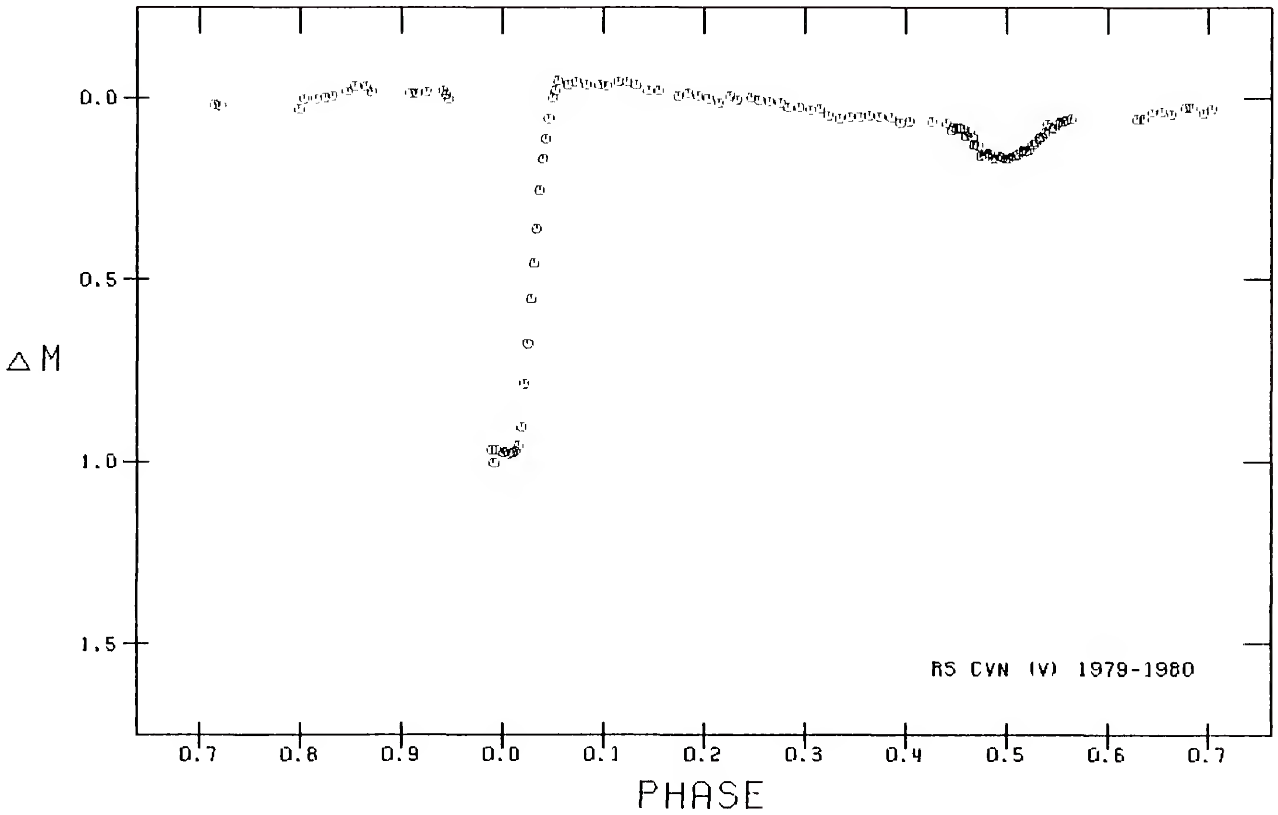

Fig. 1.-1979-1980 Visual light curve of RS CVn.

wave in the light curve outside eclipse. This wave appears to migrate in phase and change in amplitude with a time scale of several years. The depth of primary eclipse varies and the depth of secondary is not always what should be expected from the temperatures of the two components. There are also period changes, and secondary eclipse does not always appear to occur at phase 0.5.

In Hall's model a region of spot activity covers at least 1/3 the visible disk of the secondary (cooler) star. This region is about 1000°K cooler than the rest of the surface, and is confined to a region within 15 degrees north and south of the equator. The activity of the spotted region is periodic, with a period of a few decades.

The observed distortion wave is then a simple consequence of the rotation of the star. The migration of this wave is explained by invoking a solar analogy. Although the overall rotation is essentially synchronous with the orbital motion, Hall suggests that differential rotation similar to that observed in the sun causes the spotted region to rotate slightly faster than the 'co-rotating' regions (those in synchronous rotation with the system's orbital revolution). Thus the spots move toward earlier orbital phase with time. At times when the spotted hemisphere covers the visible disk near phase 0.5, the secondary eclipse removes less light from the total system light, and thus the eclipses appear too shallow.

The apparent shift of the phase of secondary eclipse may be attributed to distortions in the shape of the eclipse. These are observed to occur when the spotted hemisphere does not face earth near phase 0.0 or 0.5, but rather near quadrature. The minimum light then occurs displaced from phase 0.5.

From the solar analogy it might be expected that the starspot activity would be periodic, resulting in a periodic variation in the amplitude of the distortion wave. Hall made only a weak argument for this, and new data from Ludington (1978) are in direct conflict with an extrapolation of earlier data, using Hall's model.

Hall also attempted to correlate details in the period changes with the orientation of the spotted hemisphere. He argued that mass ejection from the spotted hemisphere caused period changes, with period increases occurring when the darker (active) hemisphere is on the leading side . Of course, mass ejection from the leading hemisphere actually causes a period decrease, and this error was pointed out by Catalano and Rodono (1974). They also pointed out that asymmetries in the light curve, due to a distortion wave, may cause large errors in times of minimum calculated from the shoulders of the primary eclipses. The question was also raised as to why the mass ejection should occur from the brighter hemisphere rather than the presumably active darker hemisphere.

Hall (1975) responded to this criticism by calculating corrections for the times of minimum published by Catalano and Rodono (1974). The calculated corrections were small compared to the (O-C) residuals, and his correlation between dark hemisphere aspect and period change appears to hold for CG Cyg and SS Cam, as well as RS CVn. Hall also criticized Catalano and Rodono's tilted ring model for RS CVn. This model has been shown to be physically unreasonable by Oliver (1975).

Evolutionary Models

The questions naturally arise as to whether the RS CVn phenomenon defines a peculiar stage of stellar evolution, and whether selection effects enhance the probability of discovering these systems. Biermann and Hall (1976) investigated a number of evolutionary models, including pre-main-sequence and post-main-sequence scenarios. They concluded that RS CVn binaries are in a thermal phase following fission of a main-sequence star. More recent work indicates that this view is probably wrong. Popper and Ulrich (1977) demonstrated a strong case for RS CVn systems being post-main-sequence stars. They plotted the masses, radii, colors, and luminosities for both RS CVn and similar non-emission systems, in the mass-color, mass-radius and color-luminosity planes. RS CVn systems were found to primarily occupy the Hertzsprung gap, the larger components being near the knee before the rise to the giant branch and the hotter component near the line demarcating the end of core hydrogen burning. Lines connecting individual system components, in all plots, run parallel to lines of equal age. Their conclusion was that RS CVn stars have evolved through processes typical of normal single stars, the larger components developing the

RS CVn phenomena as they enter the Hertzsprung gap. Details of specific RS CVn peculiarities were not discussed, but merely attributed to instabilities that develop during this stage of stellar evolution.

It is in this phase of evolution that late stars develop deep convective envelopes. The convective cells are now believed to be responsible for a number, if not all, of the RS CVn phenomena. Walter and Bowyer (1981) have shown that a simple dynamo model may be sufficient to produce the magnetic fields that power the observed X-ray fluxes. They found that the ratio of X-ray luminosity to bolometric luminosity is proportional to the angular rotational velocity for most of the RS CVn systems. Since the Coriolis force is directly proportional to the angular velocity, its action on the convective elements may be providing the driving force for the dynamo. This process, however, is still poorly understood.

In a second paper Walter (1981) extended the study to spectral type G stars in general. The same relation between the X-ray and bolometric fluxes was found to hold, extending over two orders of magnitude in angular velocity. Furthermore, it appears that the coronal activity does not depend upon surface gravity. The activity is also observed to increase with later spectral type, from F8 through K5. Perhaps the most interesting result is that there appears to be no evidence that stellar duplicity is necessary for enhanced coronal activity, since half of the stars studied were either single or in wide pairs. The primary element seems to be not the binary phenomenon, but rather the rotation rate. Angular velocity has also been shown by Bopp and Fekel (1977) to be an important difference between dMe and dM stars.

The importance of selection effects in detecting RS CVn binaries has been investigated by Morgan and Eggleton (1979). They established three criteria that should lead to enhanced probability of discovery: (1) one component must be larger and less luminous, (2) the larger component must subtend a large angle viewed from the other star (close to filling its Roche lobe), and (3) the system must be in a long-lived state. Algol systems achieve these requirements by undergoing mass transfer. RS CVn binaries have not undergone mass transfer and so must occupy some other evolutionary state satisfying the above criteria. To provide deep eclipses such a pair would need one component to be at the luminosity maximum at the end of hydrogen burning and the other component at the luminosity minimum at the base of the giant branch. Also, both components would have to be low mass stars to spend much time at these points in the evolutionary track. Finally, they suggest that periods would have to be in the range of two to ten days, long enough (and thus having component stars separated enough), to have no mass transfer but short enough to satisfy condition (2). Morgan and Eggleton calculated eclipse probabilities for a range of periods, eclipse depths, and ages. They found that in fact RS CVn systems have just the right characteristics to maximize their probability of detection. Specifically, systems with deep eclipses (equal to or deeper than 0.8 magnitudes), will typically have parameters characteristic of the RS CVn binaries.

Thus it now seems that what originally appeared as an unusual collection of phenomena defining a strangely homogeneous class of stars is in reality exactly what we should expect to find in nature. As more work is done on these systems we will no doubt come to similar conclusions about many of the other interesting details of RS CVn characteristics.

Observability of Starspots

Rucinski (1979) has suggested that if starspots are indeed responsible for the RS CVn phenomena then it may be possible to learn something about structure of convective envelopes by observing light fluctuations during secondary eclipses. His prediction is based upon his extension to subgiant stars of work done by Schwarzschild (1975) on the scale of convective cells in red giants and supergiants.

Schwarzschild used a solar analogy to propose that giants and supergiants may be covered by a modest number of large spots. On the sun the photometrically dominant convective elements are the granules. By assuming a diameter to depth ratio of three (a popular value based upon a variety of laboratory examples of convection), the estimated depths of the convective cells may be compared to the run of physical parameters calculated from a solar model. It is found that the granules extend over about one density scale-height, two pressure scale-heights, and over the significant portion of the bump in the super-adiabatic temperature gradient. This leads one to believe that these are the principal elements in the determination of the size of granules. Schwarzschild makes a somewhat weaker case for solar granule sizes being determined by the absorption coefficients or ionization zones.

By applying these same considerations to models of giants and supergiants, Schwarzschild suggests that the very high and deep run of the super-adiabatic temperature gradient causes the photometrically dominant form of convection in these larger stars. This leads to perhaps a few tens of large spots covering the surface at any time. As an observational check he suggests that the changes in these spots are responsible for the irregular changes found in most red (giant and supergiant) variable stars.

In Rucinski's work a similar analysis was made of a stellar model of RS CVn secondaries, and it was found that spots caused by supergranules would have diameters of about 5 percent of the stellar diameter. This implies that there either must be rich groups of these spots (to give the observed distortion in the light curves), or the assumed scale relations for convection may be wrong. Of course, the RS CVn phenomena could be caused by some non-spot mechanism.

Rucinski went on to show that light fluctuations during secondary eclipse, due to spots disappearing and reappearing, should be observable. Furthermore, the fluctuation in magnitudes should be inversely proportional to the frequency of the observations squared. Although at the high frequency cut-off (due to spots of 0.05 stellar radii), the fluctuations should be only of the order of 0.001 magnitudes, larger variations at lower frequencies should be more readily observed. If the particular geometry of the eclipse and spot distribution does not smooth out these variations, the spectrum should follow the predicted inverse square power distribution.

Observations along these lines have been attempted by Schwarzenberg-Czerny (1979) without success. Ludington (1978) speculated that the sawtooth shape of the distortion wave in the 1963 light curve of Chisari and Lacona (1965) suggested a large tear-drop shaped spot or spotted area. However, he did not look at the details of the light curve fluctuations during eclipse. Jakate (1980) looked at the details of primary and secondary observations of SZ Piscium. His secondary eclipse observations showed scatter from second to third contacts that appeared to be within normal observational scatter. He concluded that the spots were not on the hemisphere of the cool star that faced us during secondary eclipse. However, his primary eclipse observations appeared to have significant scatter which he interpreted as due to spots on the other hemisphere of the cool star. Since the primary eclipse is an occultation these variations must be due to the cool star, although it would seem that projection effects would smooth out these effects.

Light Curve Modeling

Only a few attempts have been made at modeling RS CVn systems by using spotted stars in light curve synthesis programs. Efforts along these lines must be made with caution, since it is tempting to introduce enough spots to fit the light curve in detail, possibly masking the effects of less arbitrary and more fundamental parameters. However, with some discretion one may be able to learn something about possible values for spot parameters by modeling the gross features of the light curve. If multiple color light curves are available it should be possible to determine the temperatures of spots. Also, if one has a series of light curves covering a series of observing seasons during which the distortion wave changes, it should be further possible to separate spot parameters from stellar parmeters.

Work along these lines began with Ludington (1978), who estimated an upper limit to RS CVn spot temperatures of 4400 K. However, he did not actually generate synthetic light curves incorporating spotted stars. Rather, he removed the eclipse phenomena from the light curve and studied the separated distorion wave.

Eaton and Hall (1979) modeled light curves for RS CVn, RT Lac and SZ Psc. They used a light curve synthesis program that incorporated two longitudinally greyed bands equidistant from and parallel to the equator of the cool star. The darkness of these bands followed a simple sinusoidal dependence upon longitude, with one maximum plus additional spots added for detailed fitting. They found particular distributions of spots (the bands), restricted to within 40 degrees of the equator, and of temperatures of 400 to 1200 K cooler than the surrounding photosphere, that provided satisfactory solutions for their light curves. However, they had color information only for one system (SZ Psc), and this was of poor quality. Their fit to the color curve for SZ Psc was not as good as any of the light curve fits. The absence of color information in these solutions appears to be a serious problem. They also concluded that neither bright polar spots nor very large individual spots would work, and that the dark spots must extend at least 15 degrees above the equator.

The only other spot modeling work published has been work done on non-eclipsing systems. Bopp and Noah (1980) modeled the light curves of two non-eclipsing RS CVn systems, Lambda Andromedae and II Pegasi. Their model represented the star as a grid of luminous points with the temperature lowered within the boundaries of the spots. The light was integrated at each phase to provide a synthetic light curve. Again with their work a lack of color information left the spot parameters much too free. Additionally, the lack of eclipses in these systems further weakens the solutions. Still, they were able to make a few conclusions. They found that spot temperatures were 800 to 2000° K less than the surrounding photosphere, and that these temperature differences vary greatly from star to star, regardless of spectral type. These spots extended at least 30 degrees above the equator and may extend as much as 60 degrees.

The spot distributions used were "rectangular" (bounded by longitude and latitude lines), and it is noteworthy that these systems using two large spots produced light curves as smooth as those produced by Eaton and Hall's ad hoc sinusoidal greying. Bopp and Noah pointed out that the asymmetries required spots with very large (100 - 180 degree) extents in longitude, rather than the high-latitude spots of Bopp and Evans (1973). It should be noted that these non-eclipsing binaries have small inclinations (30 - 60 degrees), which produces an almost pole-on view of the spots. Bopp and Noah finally concluded that further work should concentrate on the eclipsing systems.

Dorren et al. (1981) synthesized light curves for the non-eclipsing RS CVn binary V711 Tau (HR 1099). Their model is different in that it uses circular spot areas and that it uses flux ratios for the spotted areas taken from solar spectrophotometric tables, rather than from blackbody calculations. Like Bopp and Noah, they found satisfactory solutions by using two large spots. However, their spots did notextend farther in longitude than latitude. The temperature difference found to be best was 1860^{0}K--quite large compared to other work, but not much above the solar value of about 1600°K (Tanberg-Hanssen 1967). Their wide range of wavelength coverage (5500 to 7790 Angstroms) allowed a better solution for spot parameters.

Clearly there is a need for an extension of these first efforts. More close monitoring of these systems in a variety of passbands will allow better solutions for the spots' physical characteristics and a better understanding of their long-term behavior.

The Scope of This Work

In this work observations were made during several secondary eclipses of some RS CVn systems (RU Cnc, RS CVn, RZ Eri, GK Hya, and AR Lac), with the data acquisition procedure optimized for spot detection. Additionally, a general monitoring program was extended to provide light curve coverage for several RS CVn systems (especially out-of-eclipse coverage). The light curves of several systems were Fourier analyzed to measure the amplitude and phase of any distortion wave present.

To model these light curves along the lines discussed above, spot routines were added to the Wilson-Devinney light curve program (Wilson and Devinney 1971). This widely used program provides the best means of producing a synthetic light curve for almost any kind of binary and thus provides a good basis for modeling spotted stars.

CHAPTER II
INSTRUMENTATION

Telescope and Photometer

The 46cm telescope used in this work has been described by Ludington (1978). A new photometer developed by John Oliver and Whit Ludington was used in all of this work. This photometer, shown in Fig. 2, employs a mirror to direct the beam either to the viewing eyepiece or to the photomultiplier tube. This deflection of the beam and its associated attenuation of the flux was an unfortunate necessity due to clearance problems with the telescope's fork mount. The diaphragm selection wheel carries a variety of different size aperture stops, given in Table 4.

TABLE 4

PHOTOMETER FOCAL PLANE DIAPHRAGMS

Wheel Position	Engraved Number	Diameter (inches)	Diameter (arc sec)
1	1	0.0778	82
2	2	0.0590	62
3	-	blank	--
4	3	0.0394	41
5	4	0.0290	30
6	-	blank	--
7	5	0.0200	21
8	6	0.0153	16
9	-	blank	--
10	7	0.0114	12
11	8	0.0083	9
12	-	blank	--

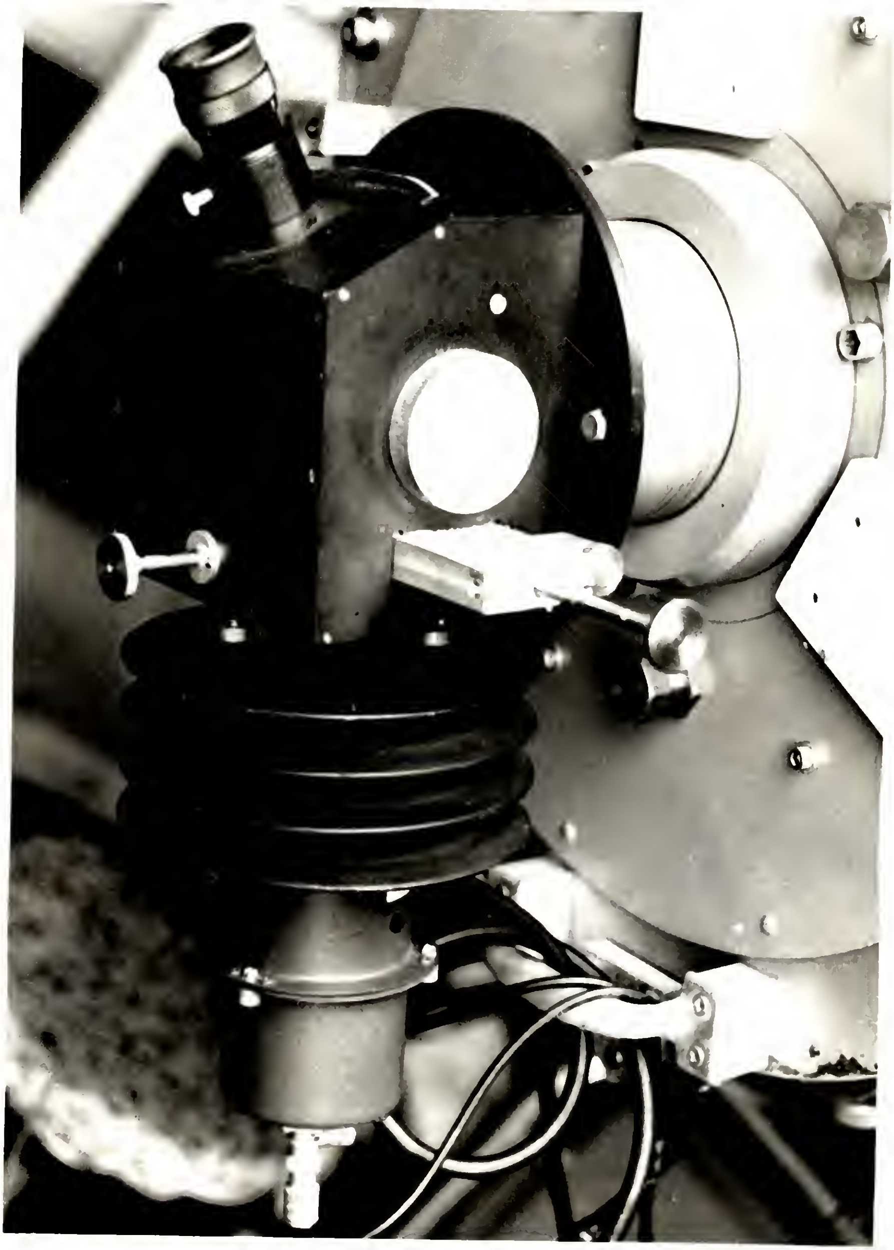

Fig. 2.-The 46cm telescope photometer.

In the research program diaphragms #4 and #5 were used. The filter slide contains standard U, B, and V filters. An EMI 6256S (serial no. 29675) photomultiplier tube is mounted in a thermoelectrically cooled housing; it was used at 1250 volts.

An ATMCO M240V Amplifier was used for this work. This amplifier provides two outputs: an analog voltage for driving a strip chart recorder, and a TTL level square wave with a frequency proportional to the voltage output. This digital signal may be monitored with either a digital averager or a microcomputer.

Data Acquisition Electronics

The 46 cm telescope at Rosemary Hill has been used with a variety of different set-ups for the acquisition of photoelectric data. Until March, 1976, data were recorded only with a Heathkit chart recorder. After that (until January, 1979), the data were also recorded digitally using a manually operated digital averager.

Beginning in January of 1979, a new system was developed to provide a more efficient method of digitally recording the data. This system is based on a Rockwell AIM-65 microcomputer. The AIM is a single-board microcomputer, composed of a 6502 CPU, 4K bytes of RAM, a full-size keyboard, a 20-character LED display, a 20-character thermal printer, and a 6522 VIA parallel I/O port. The system has been enclosed in a fiberglass case and is conveniently

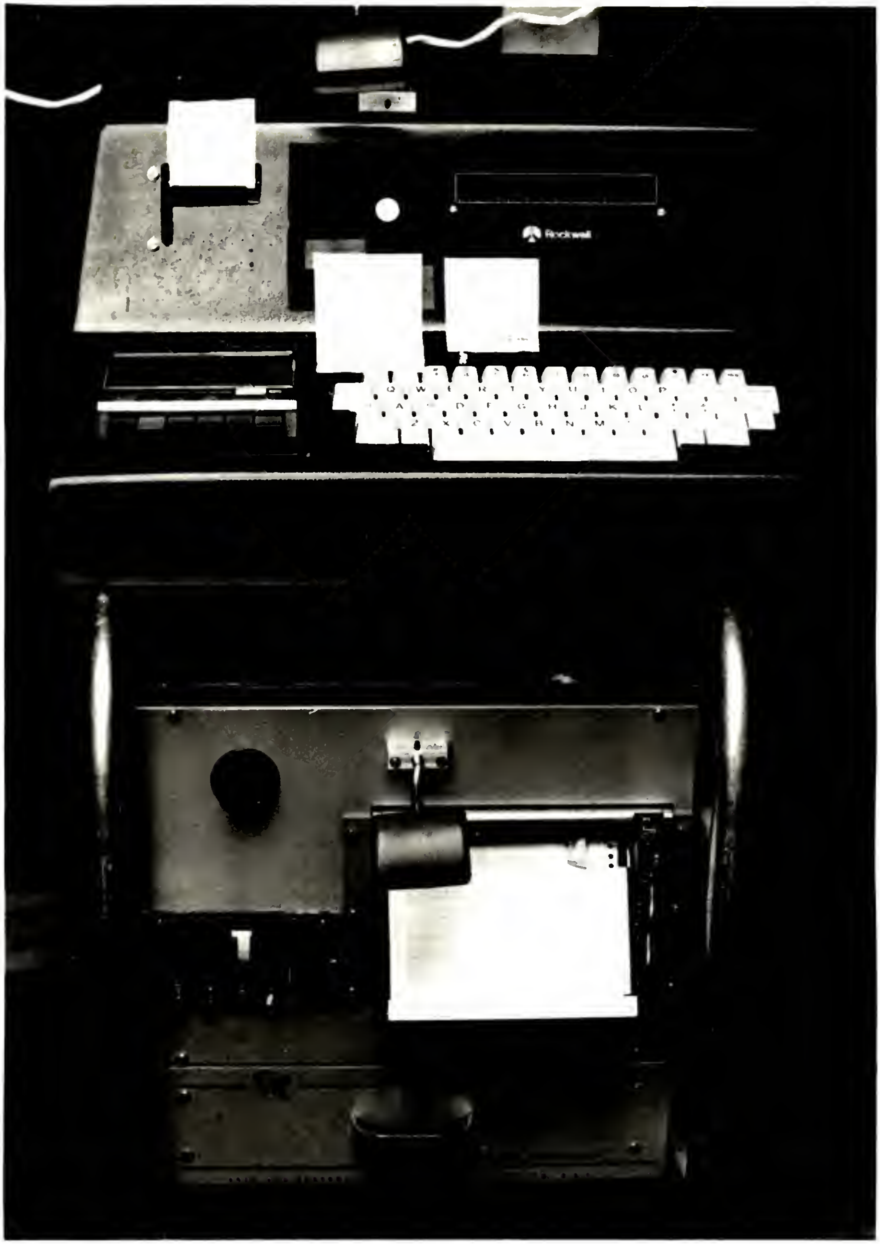

Fig. 3.-The AIM microcomputer, amplifier, and cart.

The power of any computer based data acquisition system is in the versatility of the software. The program may be modified or expanded by the user to suit the user's needs. This flexibility is not enjoyed by users of systems that incorporate most of the data-gathering functions in special electronic circuitry. The program developed during this work, "UBV", has evolved to be a particularly powerful and pleasantly interactive program. It will continue to be improved upon to become even more so.

UBV

The UBV program was written by Dr. John P. Oliver, in 6502 assembly language. Until May, 1980, the program was loaded into the AIM from cassette at the beginning of each night's work. For speed, convenience, and increased reliability, the program was then put in a PROM (Programmable Read Only Memory).

The program has single-keystroke commands for starting an integration, aborting an integration, adding comments, and for manipulating the observation label. Other commands are provided to set the program clock, data tape file name, integration length, and to manipulate the label sequence, printer and tape recorder. These additional commands use multiple keystrokes to prevent accidental entry during the night. The operational details are described by Oliver (1980).

The UBV program provides output both printed on paper and recorded on cassette tape. The time, integration value, and label are printed in three fields in one line per observation. Every five observations a block of data is recorded onto the tape.

CHAPTER III
OBSERVATIONAL PROCEDURES

A major problem in photoelectric photometry, and almost always the dominant source of noise in Florida skies, is the variation of the transparency of the atmosphere. These changes in atmospheric extinction of starlight are monitored in differential photometry by the regular observation of a 'comparison star' along with the variable star. This leads to a regular sequence of observations of variable, comparison and sky, each through one or more filters. The UBV program helps the observer by prompting him with what should normally be observed next. This, combined with the automatic recording and display of the data, allows for very efficient observing.

For this work it was often desired to sample the objects at regular intervals of time. This produced equally spaced observations that would allow especially simple Fast Fourier Transform analysis techniques to be applied to the data, should such analysis prove to be a useful tool. This technique was mainly used during eclipse observations, although it was also used occasionally at other times to provide further data for comparison. The choice of the interval of time between observations depended upon several factors. First, it was desired to have that interval be a minimum, since our knowledge of fluctuations is limited to those of a time scale equal to or greater than twice the sample interval. Second, the telescope maneuverability sets a lower limit to the interval. A minimum interval was chosen that could be consistently relied on as long enough to move the instrument between objects. Finally, the interval chosen was to be an integral number of minutes or half-minutes to make it easy to calculate the next integration start time. Since the 46cm telescope is very easy to move manually, it was possible to get these intervals down to 1-1/2 to 2 minutes (e.g., variable to comparison or vice versa), depending mainly on the number of filters used. When an error led to an impossibly late observation, that observation was skipped. The planned schedule was then resumed at the next opportunity.

All observing runs began and ended with sky background measurements. Between these the sky was measured at regular intervals ranging from 15 minutes to an hour, depending on sky brightness and its variations. For sky measurements a comparison measurement was regularly skipped and the sky observation substituted. This meant that no variable star measurements were sacrificed. Occasionally a check star measurement was similarly substituted for a comparison star observation. In cases where the comparison star has a history of constancy, these check star measurements were not made.

The second and third (if used) filter observations in a set were always begun at the same sub-interval after the first observation. Thus observations of an object were equally spaced for all colors.

In all of the photometry the AIM proved to be an extremely effective tool. Three major advantages became obvious. First, the automatic sequence of the labels provides a reminder of what must be observed next. This helps one to stick to a planned observing program. Second, transcription errors are reduced to a minimum. Finally, and most important, the automatic recording of the data saves a great deal of time, both at the telescope and in the data reduction process. This leaves the observer free to do some quick analysis of the incoming data. Thus changes in seeing conditions, astronomical events and instrumental problems are noticed immediately. This is not easy to do with classical (but now obsolescent) chart recorder techniques. Indeed, the next advances in computer-assisted photometry will include real-time data analysis.

Use of the AIM quickly relegated the chart recorder to a purely back-up status. Eventually it was found that with care one could discontinue use of the chart recorder altogether. Problems such as drift or clouds can be seen as a sudden drop of more than a few percent in an integration value. If there is no intention of using the chart strip for measurement, then there is no need to change gains between observations to keep the chart deflection large. This means that with good modern amplifiers there is no need to calibrate out gain step changes. No observations used in this work were taken from chart recorder strips.

CHAPTER IV
DATA REDUCTION

All of the data were reduced using the PHotoelectric REDuction program (PHRED). This program requires the data to be in the "Ludington-Oliver" format, as described by Ludington (1978). In this work utility programs were written to read AIM data cassettes, download the data to the Northeast Regional Data Center computer, and reformat the data to the Ludington-Oliver format.

TCPDL

TCPDL (TCP DownLoad) is a program written in AIM 65 8K BASIC to read UBV data cassettes and transfer the data to the NERDC via telecommunication. This program produces a file in the NERDC Terminal Control Program (TCP) system that is an image of UBV's printed output, with the block labels omitted. In principle, TCPDL could be used to communicate with any host computer system that accepts lines of data terminated with a carriage-return character. Since TCPDL is written in BASIC it may be easily modified to suit any user and his host system.

Special hardware used for the downloading include a serial port added to the AIM and an acoustic coupler modem. The serial port consists of an RS-232 port using a 6850 ACIA integrated circuit. This port is connected to a 300 baud acoustic coupler modem, which is in turn used with any telephone. TCPDL simply reads cassette data files one block at a time, reformats the data to ASCII and sends the characters to the data port.

AIMDATA

For further reduction it was necessary to reformat the data files produced by TCPDL. It was also desired to produce a (non-thermal) printout of the data, adding the comments entered during the observing. The program AIMDATA performs these functions, producing a deck of data cards in the Ludington-Oliver format. Unlike PHRED, which is written in the PL1 programming language, AIMDATA is written in FORTRAN. The author strongly believes that utility programs that will likely be used by others should be written in a language that is understood by most users, even if that language is not the most advanced advailable. This enables future users to enahance or otherwise modify the program. FORTRAN is still the most widely supported scientific language available today.

Data files produced by the TCPDL procedure must be edited before running AIMDATA against them. These data files are usually night-oriented whereas the Ludington-Oliver data cards are object-oriented. Thus it is necessary to divide the data files into segments, each segment containing data for only one object (i.e., a particular variable, comparison and check star). Each of these segments begins with two lines of control data used by the program. The first line has eights (8) in the first six columns; the rest are blank. The second line contains the following information shown in Table 5.

TABLE 5

AIMDATA CONTROL LINE

Columns	Information	Example
1-10	Star name (right justified)	RS CVN
11-15	Last five digits of Julian Date	44346
16-18	Amplifier Gain	D03
19-21	Observer	DBC
22-24	Telescope	046
25-27	Photometer/Amplifier/Filter	T22
28-30	Observatory	RHO

The standard nomenclature adopted in this work to define the photometer and amplifier identification for Rosemary Hill Observatory is given in Table 6.

Any comments to be transcribed from the AIM thermal printout to the data files are preceded by a line containing only nines (9) in the first six columns. Comments are limited to one line of 80 characters and must be separated by three observations. It is advisable to put a comment at the beginning of each file, including the date, sky conditions and any other information that is to be retained. At this point the data files should be checked carefully against the AIM thermal printout for errors and missing observations. As many objects as desired may be stacked in one run of AIMDATA, each initiated by the two control lines. The program automatically ends after the last data card has been read and reformatted.

TABLE 6

AIMDATA CODE NOMENCLATURE

Device	Code
Amplifier	R for 1977-1978 white amplifier S for 1977-1978 amplifier from 30" telescope. T for 1979-.... black amplifier
Filter set	1 for "Chen" photometer filters 2 for new photometer filters used in this work.
Photomultiplier	1 for Chen photometer. 2 for tube used in this work.

AIMDATA produces both a listing with comments and a punched deck without comments. The user can route the card output back to TCP, only punching it when there are no errors. If the run is successful this also provides a data file already in TCP for further reduction with PHRED.

For later use in other data analysis programs, cards of the edited raw observations were punched for each night of special interest.

PHRED

The output of AIMDATA may then be read by PHRED. The user is referred to Ludington (1978), for details. In this work PHRED was used to produce differential magnitudes (and fluxes), and Heliocentric Julian Dates. PHRED also computes extinction coefficients, but does not apply them to the data.

CHAPTER V
DATA ANALYSIS

The Systems Observed

Fourteen RS CVn systems were observed over a period of three observing seasons. Some systems were observed only to monitor the outside-of-eclipse distortion wave; eclipses were not always obtained. Other systems were more fully observed, with eclipses covered when possible. Still other systems were observed primarily for coverage of secondary eclipses. In the last two seasons emphasis was placed on obtaining as many secondary eclipses as possible for RS CVn and AR Lac. Table 7 summarizes the seasons each system was observed. Note that the observing season in Florida corresponds roughly to the academic year, hence the nomenclature 1979-1980, etc. This terminology is used here even for systems not observable across a change in calendar year.

The observations were reduced, using PHRED, to differential magnitudes. Differential extinction corrections were not applied, since the comparison star for each system is close to the variable. Observations were normally not made at greater than two air masses. The observations were not transformed to any standard photometric system, since it was not necessary for the work done here. However, data were obtained on one night for several UBV standard stars. The data had been taken after a long observing run

TABLE 7

THE SYSTEMS OBSERVED

Name	Seasons Observed
UX Ari	1978-1979
CQ Aur	1978-1979
RU Cnc	1979-1980
RS CVn	1978-1979, 1979-1980, 1980-1981
UX Com	1979-1980
WW Dra	1978-1979, 1979-1980
RZ Eri	1978-1979, 1979-1980, 1980-1981
GK Hya	1978-1979, 1979-1980
AR Lac	1978-1979, 1979-1980, 1980-1981
LX Per	1978-1979, 1979-1980
TY Pyx	1978-1979, 1979-1980
V711 Tau	1978-1979
RW UMa	1978-1979
RS UMi	1978-1979

TABLE 8

SYSTEM EPHEMERIDES

Name	Epoch (JD-2400000)	Period (days)	Reference
UX Ari	40133.75	6.43791	Wood et al. (1980)
CQ Aur	29558.78	10.62148	"
RU Cnc	22650.720	10.172988	"
RS CVn	42870.962	4.797752	Ludington (1978)
UX Com	25798.370	3.642386	Wood et al. (1980)
WW Dra	28020.3693	4.629585	"
RZ Eri	43574.083	39.28238	Caton & Oliver (1979)
GH Hya	14968.860	3.587033	Wood et al. (1980)
AR Lac	40933.3081	1.983192	Kang (1981)
LX Per	27033.12	8.038044	Wood et al. (1980)
TY Pyx	27154.325	3.198584	"
V711 Tau	42770.65	2.83782	"
RW UMa	33006.308	7.328251	"
RS UMi	26855.390	6.16860	"

on a variable star; its comparison star data were used for the calculation of the extinction coefficients, using the following equations:

$$v^\circ = v - k \cdot X$$

$$(b-v)^\circ = ((b-v) - k_1 \cdot X) \,/\, (1+k_1' \cdot X)$$

$$(u-b)^\circ = ((u-b) - k_2 \cdot X) \,/\, (1+k_2' \cdot X)$$

Transformation coefficients were then computed from the standard star measurements. The transformation to UBV system magnitudes may be made using the following equations:

$$B-V = A_1 + A_2 (b-v)^\circ$$

$$U-B = A_3 + A_4 (u-b)^\circ$$

$$V-v = A_5 + A_6 (b-v)^\circ$$

where approximate values for the transformation, from the one night's observations, are:

$A_1 = 0.93 \pm 0.02$ $\quad A_3 = -1.81 \pm 0.04$ $\quad A_5 = 9.27 \pm 0.01$

$A_2 = 1.05 \pm 0.03$ $\quad A_4 = 1.07 \pm 0.01$ $\quad A_6 = -0.14 \pm 0.02$

The differential magnitudes and heliocentric Julian Dates (with the first two digits suppressed), are tabulated in Appendix B.

Phases were computed for each season's data for each system, using ephemerides taken from Wood et al. (1980), except for RS CVn, RZ Eri and AR Lac. The ephemerides and their references are given in Table 8.

The light curves for each system are shown in Figures 18 - 105. For most light curves the plotted points are the actual data points. For some systems plots of normal points are provided in addition to or in place of plots of the data. This was done in cases where there was either too much data for clarity, or where the normal points reduced the scatter enough to reveal specific aspects of the light curve.

Distortion Wave Analysis

For light curves where there was sufficient phase coverage the data were Fourier analyzed to determine the amplitude and phase of the distortion wave. This method has been used by Hall (1977). The differential magnitude (Δm), outside of eclipse was expressed as:

$$\Delta m = A_0 + A_1 \cos\theta + A_2 \cos 2\theta + B_1 \sin\theta$$

where θ ia the orbital phase. The A_2 coefficient represents the ellipticity effect, which is small for these systems. The differential reflection effect should be small for these systems, so ignoring A_2, the semi-amplitude of the distortion wave (C), and the phase of maximum (θ_0) are given by just:

$$C = \sqrt{A_1^2 + B_1^2} \quad \text{and} \quad \mathrm{TAN}\ (\theta_0) = \frac{B_1}{A_1}$$

The above equation of condition was solved for the light curves by using the method of least squares. We should note that this assumes all of the A_2 coefficient is due to ellipticity, although the distortion wave may also contribute to A_2. More importantly, we should realize that this formulation assumes a simple sinusoidal representation of the wave.

Table 9 lists the total amplitude (2xC), expressed in magnitudes, and the phase of maximum, in phase units, for

TABLE 9

DISTORTION WAVE PARAMETERS

System Season	Fil.	Amplitude (peak-peak)	Phase	A_0	A_1	A_2	B_1
RS CVn	V	0.1398 ± 0.0439	0.24	-0.3148 ± 0.0113	-0.0059 ± 0.0169	0.0054 ± 0.0181	-0.0696 ± 0.0142
1978-	B	0.1230 ± 0.0391	0.23	-0.1991 ± 0.0100	-0.0079 ± 0.0150	0.0097 ± 0.0160	-0.0614 ± 0.0126
1979	U	0.0978 ± 0.0327	0.24	-0.0967 ± 0.0083	-0.0028 ± 0.0124	0.0028 ± 0.0135	-0.0489 ± 0.0107
RS CVn	V	0.1096 ± 0.0052	0.01	-0.3150 ± 0.0013	-0.0547 ± 0.0020	0.0040 ± 0.0022	-0.0025 ± 0.0017
1979-	B	0.0930 ± 0.0054	0.00	-0.2006 ± 0.0014	-0.0465 ± 0.0021	0.0469 ± 0.0023	-0.0013 ± 0.0017
1980	U	0.0680 ± 0.0056	0.01	-0.0970 ± 0.0015	-0.0339 ± 0.0022	0.1695 ± 0.0024	-0.0018 ± 0.0018
RS CVn	V	0.1186 ± 0.0758	0.76	-0.3244 ± 0.0208	-0.0038 ± 0.0320	-0.0045 ± 0.0329	0.0592 ± 0.0204
1980-	B	0.0878 ± 0.0596	0.76	-0.2070 ± 0.0165	-0.0049 ± 0.0256	-0.0041 ± 0.0257	0.0436 ± 0.0153
1981	U	0.0686 ± 0.0459	0.78	-0.1023 ± 0.0128	-0.0082 ± 0.0194	0.0014 ± 0.0198	0.0333 ± 0.0123
UX Com	V	0.0950 ± 0.0664	0.81	0.6686 ± 0.0142	0.0178 ± 0.0264	-0.0106 ± 0.0243	-0.0440 ± 0.0202
1979-	B	0.0844 ± 0.0626	0.81	0.6805 ± 0.0133	0.0163 ± 0.0249	-0.0073 ± 0.0229	-0.0389 ± 0.0190
1980	U	0.0830 ± 0.0683	0.84	0.6376 ± 0.0150	0.0228 ± 0.0274	-0.0028 ± 0.0249	-0.0346 ± 0.0204
RZ Eri	V	0.0402 ± 0.0169	0.02	-0.7524 ± 0.0042	-0.0199 ± 0.0066	-0.0001 ± 0.0061	-0.0028 ± 0.0053
1978-	B	0.0288 ± 0.0176	0.06	-0.7218 ± 0.0044	-0.0131 ± 0.0069	-0.0017 ± 0.0064	-0.0060 ± 0.0055
1979	U	0.0420 ± 0.0172	0.98	-0.4225 ± 0.0054	-0.0207 ± 0.0084	-0.0114 ± 0.0078	-0.0031 ± 0.0067
RZ Eri	V	0.0358 ± 0.0148	0.99	-0.7092 ± 0.0041	-0.0179 ± 0.0048	-0.0018 ± 0.0053	0.0005 ± 0.0062
1979-	B	0.0302 ± 0.0214	0.97	-0.6870 ± 0.0056	-0.0124 ± 0.0067	0.0001 ± 0.0070	-0.0086 ± 0.0084
1980	U	0.0650 ± 0.0611	0.22	-0.4177 ± 0.0150	-0.0056 ± 0.0200	0.0050 ± 0.0210	-0.0320 ± 0.0231
RZ Eri	V	0.0736 ± 0.0229	0.12	-0.6872 ± 0.0060	-0.0258 ± 0.0080	-0.0013 ± 0.0082	-0.0263 ± 0.0083
1980-	B	0.0908 ± 0.0089	0.23	-0.6604 ± 0.0238	-0.0032 ± 0.0324	-0.0416 ± 0.0329	-0.0452 ± 0.0315
1981	U	0.0424 ± 0.0209	0.10	-0.3883 ± 0.0055	-0.0170 ± 0.0075	-0.0014 ± 0.0076	-0.0125 ± 0.0073
GK Hya	V	0.0364 ± 0.0141	0.01	-0.5494 ± 0.0036	0.0182 ± 0.0057	-0.0009 ± 0.0056	0.0008 ± 0.0042
1979-	B	0.0364 ± 0.0250	0.98	-0.3870 ± 0.0064	0.0181 ± 0.0100	-0.0012 ± 0.0099	-0.0023 ± 0.0075
1980	U	0.0766 ± 0.0372	0.95	-0.2651 ± 0.0094	0.0364 ± 0.0149	-0.0010 ± 0.0147	-0.0117 ± 0.0112
AR Lac	V	0.0146 ± 0.0134	0.87	-0.9806 ± 0.0041	0.0051 ± 0.0057	0.0054 ± 0.0063	-0.0051 ± 0.0036
1979	B	0.0106 ± 0.0161	0.93	-1.0236 ± 0.0049	0.0048 ± 0.0069	0.0010 ± 0.0076	-0.0021 ± 0.0042
LX Per	V	0.0536 ± 0.0197	0.92	0.2829 ± 0.0051	0.0241 ± 0.0070	0.0018 ± 0.0067	-0.0118 ± 0.0070
1978-	B	0.0456 ± 0.0231	0.95	-0.1029 ± 0.0058	0.0220 ± 0.0082	0.0040 ± 0.0077	-0.0059 ± 0.0082
1979	U	0.0460 ± 0.0345	0.02	-0.6848 ± 0.0087	0.0220 ± 0.0122	0.0191 ± 0.0114	0.0065 ± 0.0122
LX Per	V	0.0228 ± 0.0140	0.24	0.2920 ± 0.0034	-0.0007 ± 0.0049	0.0019 ± 0.0043	-0.0113 ± 0.0048
1979-	B	0.0216 ± 0.0148	0.23	-0.0931 ± 0.0037	-0.0012 ± 0.0053	0.0007 ± 0.0047	-0.0107 ± 0.0052
1980	U	0.0332 ± 0.0214	0.86	-0.7017 ± 0.0053	0.0109 ± 0.0076	-0.0063 ± 0.0068	-0.0125 ± 0.0075
TY Pyx	V	0.0344 ± 0.0214	0.87	0.5559 ± 0.0052	0.0117 ± 0.0075	-0.0029 ± 0.0087	-0.0125 ± 0.0077
1978-	B	0.0354 ± 0.0500	0.18	0.2560 ± 0.0120	-0.0065 ± 0.0175	-0.0262 ± 0.0202	-0.0165 ± 0.0179
1980	U	0.0428 ± 0.0350	0.86	-0.2880 ± 0.0080	0.0155 ± 0.0122	0.0069 ± 0.0142	-0.0185 ± 0.0126

TABLE 9 - Continued

System Season	Fil.	Amplitude (peak-peak)	Phase	A_0	A_1	A_2	B_1
RW UMa	V	0.1042 ± 0.0287	0.98	0.9516 ± 0.0069	-0.0515 ± 0.0079	-0.0001 ± 0.0112	0.0073 ± 0.0120
1978-	B	0.0732 ± 0.0568	0.09	1.0759 ± 0.0131	-0.0299 ± 0.0158	0.0218 ± 0.0220	-0.0210 ± 0.0236
1979	U	0.0707 ± 0.0417	0.03	1.1323 ± 0.0095	-0.0344 ± 0.0114	0.0057 ± 0.0155	-0.0071 ± 0.0175

the light curves analyzed. The values of the coefficients are also listed, as well as their standard errors.

Star Spot Models

In order to investigate the theoretical observability of starspots beyond the initial work of Rucinski (1979), model light curves were run using a modified version of the light curve synthesis program developed by Wilson and Devinney (1971). Wilson had already produced a spot routine for the circular orbit version of the program. However, the latest version of the program allows fully for eccentric orbits. In this work the spot routines were incorporated into this new version.

The Wilson-Devinney program computes the flux from each visible point on a grid that defines each star. The spacing of the grid point rows, in latitude and longitude, is an adjustable parameter. The flux from each point is computed from the local temperature and is adjusted for a variety of effects, including limb darkening, gravity darkening, reflection effect, and geometric effects. The spotted version further multiplies this local temperature by a factor determined by subroutine SPOT. Each time a grid point temperature is calculated, SPOT is called to check if the point is within the boundaries of any spots. If so, a temperature factor of other than unity (different for different spots), is returned to be multiplied by the temperature. If the point is within two or more spots, a mean factor is computed.

The spots are assumed to be circular and are given to the program as a table of longitude, latitude, radius (the angle subtended at the star's center), and a temperature factor (TF = the ratio of the spot temperature to the local temperature). The generality of the latter parameter allows for either hot or cool spots. Longitude is measured from 0° – 360° , from the sub-stellar point, in the sense that a spot placed at increasing longitude appears at increasing phase in the light curve. A spot placed at longitude zero on the secondary star appears centered at phase 0.5. Latitude is measured from 0° – 180°, from the pole down towards the equator. The program as it presently exists only allows spots on the secondary star, although it would be easy to extend it to allow spots on either or both stars.

In this work the spots were modeled for the 1979-1980 light curve for RS CVn. To study the observability of spots and the light curve differences for different spot distributions it was not necessary to get a perfect fit to the light curve. Instead, by starting with the parameters of Ludington (1978) and adjusting the star temperatures and spot parameters, a good fit was obtained for the distortion wave and secondary eclipse.

The final solution is shown in Figures 4 and 5, and the parameters are given in Table 10. Five spots were required for a smooth enough distribution in longitude to reproduce the distortion wave. The spot parameters for the five-spot solution are given in Table 11. Model runs with different size and temperature spots were tried, attempting to keep

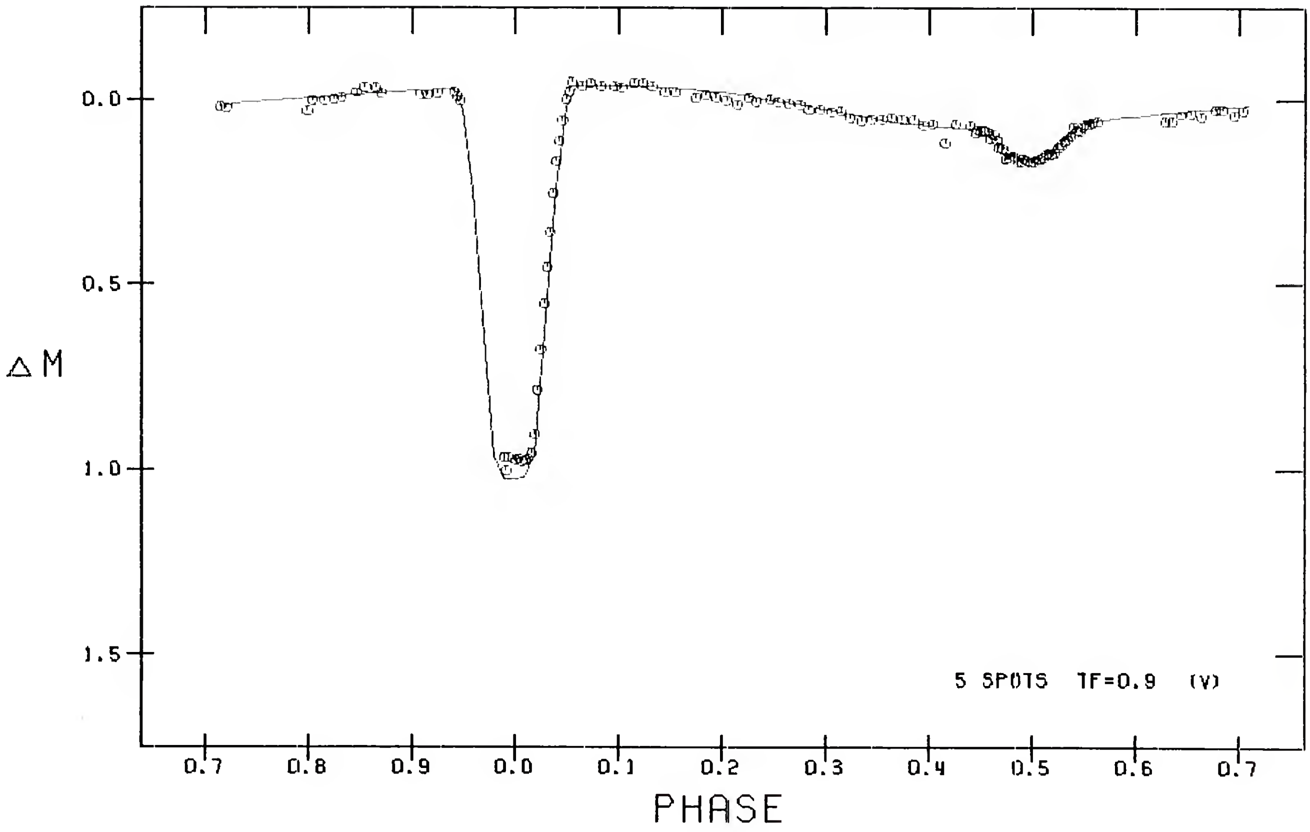

Fig. 4.-The five-spot solution visual light curve.

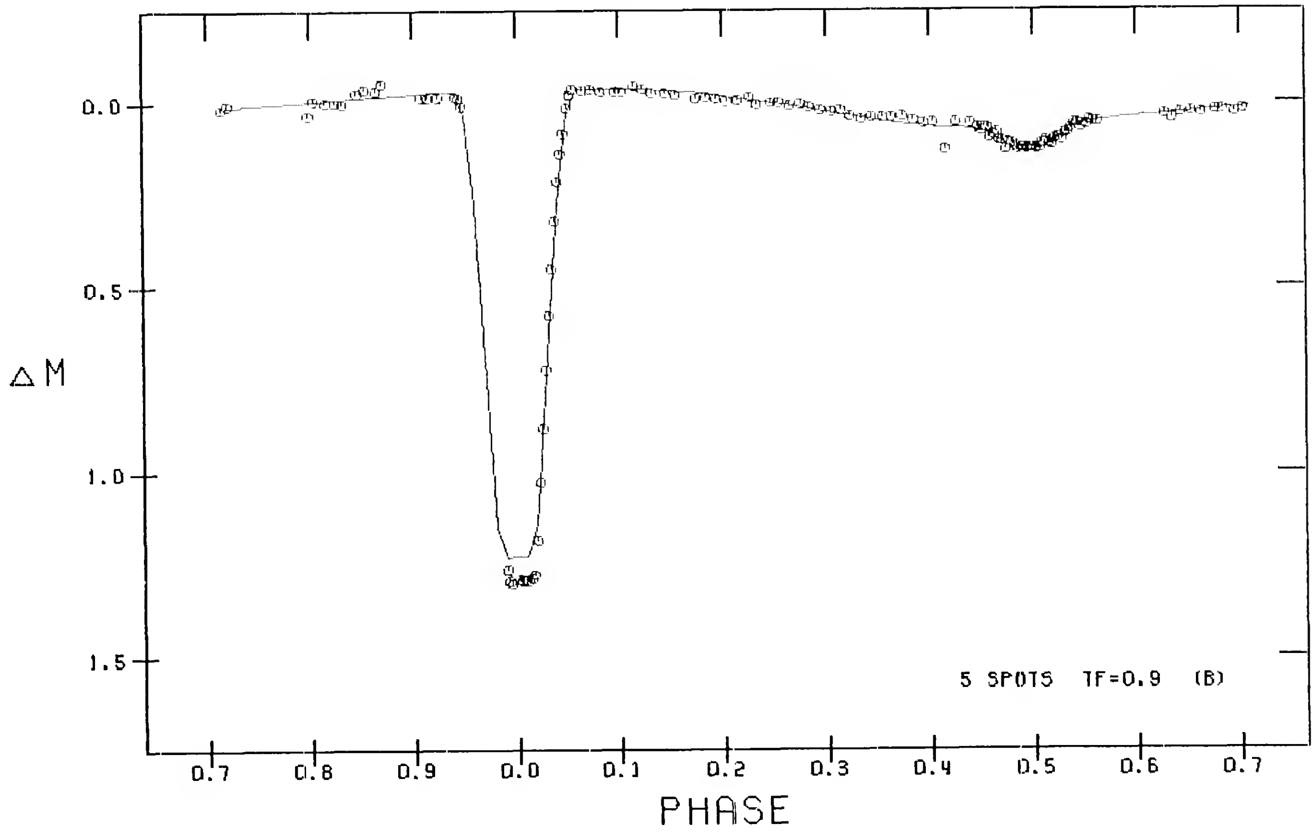

Fig. 5.-The five-spot solution blue light curve.

TABLE 10

WILSON-DEVINNEY PROGRAM PARMAETERS

Parameter	Value
Mode of computation	2 (a)
IFAT1 – model atmosphere control parameter (pri.)	1 (b)
IFAT2 – " " " " (sec.)	1
N1 – no. of lat. rows / hemisphere on primary	30
N2 – no. of lat. rows / hemisphere on secondary	30
Eccentricity	0.0
F1 – ratio of rotation to synchronous rate (pri.)	1.0
F2 " " " " " " (sec.)	1.0
Phase of primary conjunction	0.0
Orbital inclination	85°.34
Gravity darkening exponent, primary star	0.25 (c)
Gravity darkening exponent, secondary star	0.25
Temperature of primary star	6700°K
Temperature of secondary star	4400°K
Bolometric albedo of primary star	0.30
Bolometric albedo of secondary star	0.05
Potential of primary star	9.73
Potential of secondary star	5.24
Mass ratio: secondary/primary	1.04
Wavelength (for visual curve)	5500 Å
Wavelength (for blue curve)	4400 Å
$L_1/(L_1+L_2)_V$	0.609
$L_1/(L_1+L_2)_B$	0.676
Limb darkening coefficient for primary star	0.72
Limb darkening coefficient for secondary star	1.00
Third light	0.0

Notes for Table 10

a) In mode 2, luminosities are coupled to temperatures.
b) Program uses Plankian flux if IFAT $\neq$ 0.
c) Gravity darkening exponent is 1.00 for Von Zeipel Law. For convective envelopes it is about 0.25 to 0.33.

the total spot flux constant. This maintained the same distortion wave amplitude and approximate eclipse depths, although detailed attention was not particularly given to the depths. It was found that the spot radii (r) could be changed if their temperature factors (TF) were also changed, such that:

$$\frac{r_{new}}{r_{old}} = \sqrt{\frac{TF_{old}^{4} - 1}{TF_{new}^{4} - 1}}$$

A given spot can only be made smaller and cooler to a limit beyond which the decreasing spot brightness cannot balance the uncovered surrounding photosphere. Also, making the spots smaller and darker has little effect on the fit of the light curve. For example, we see in Figures 6 - 8 that making the spots in the five-spot model cooler and smaller did not affect the quality of the fit. In this example the spot radii could only be reduced to 0.5 of their initial values without reducing the amplitude of the distortion wave.

To explore the differences in details of the light curves, a 75-spot model was run, with the distribution of the spots determined by manually filling in the outline of the five-spot model (see Fig. 9), with 75 spots of five degree radius. The light curve generated using this distribution has a reasonably good fit (see Fig. 10). One might expect, however, to see differences between the five and 75-spot models in the details of the fluctuations during

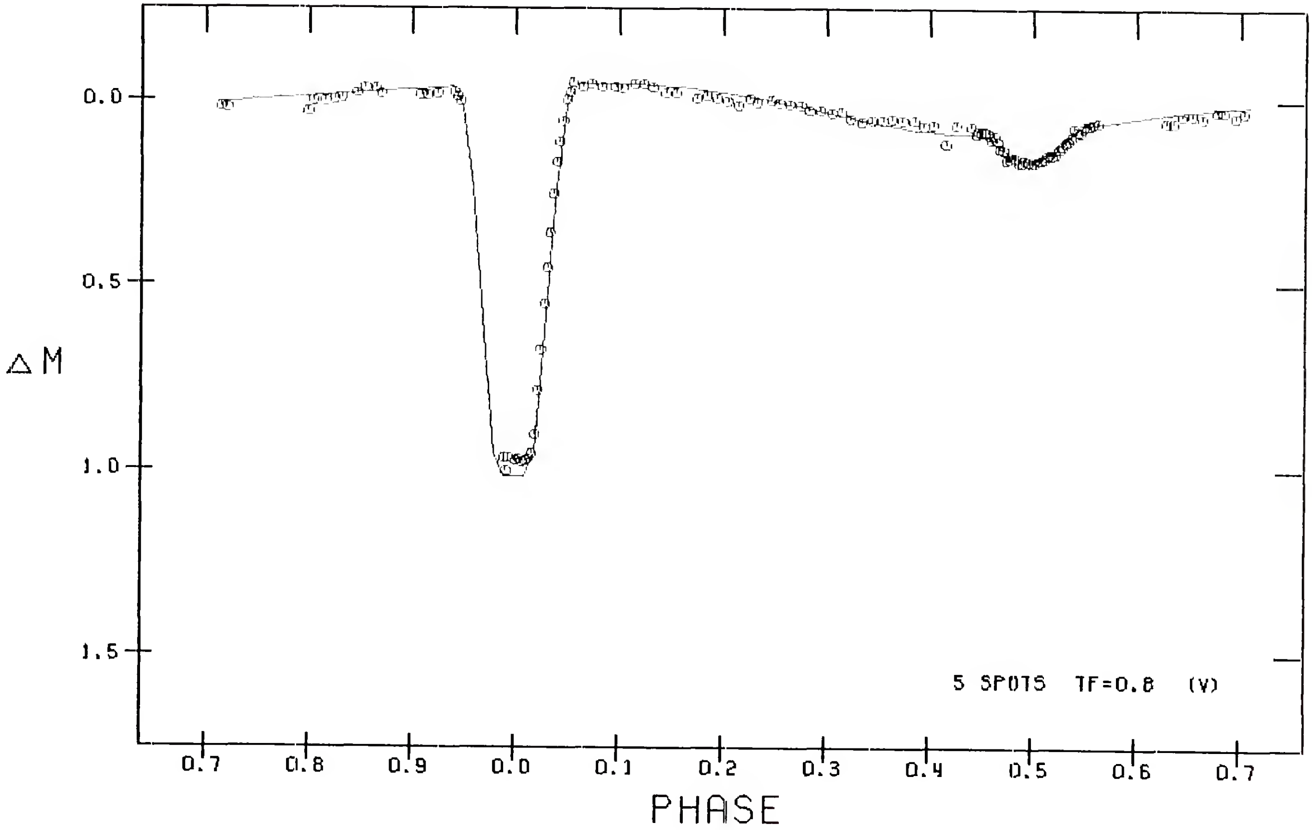

Fig. 6.-The five spot solution light curve for a temperature factor of 0.8.

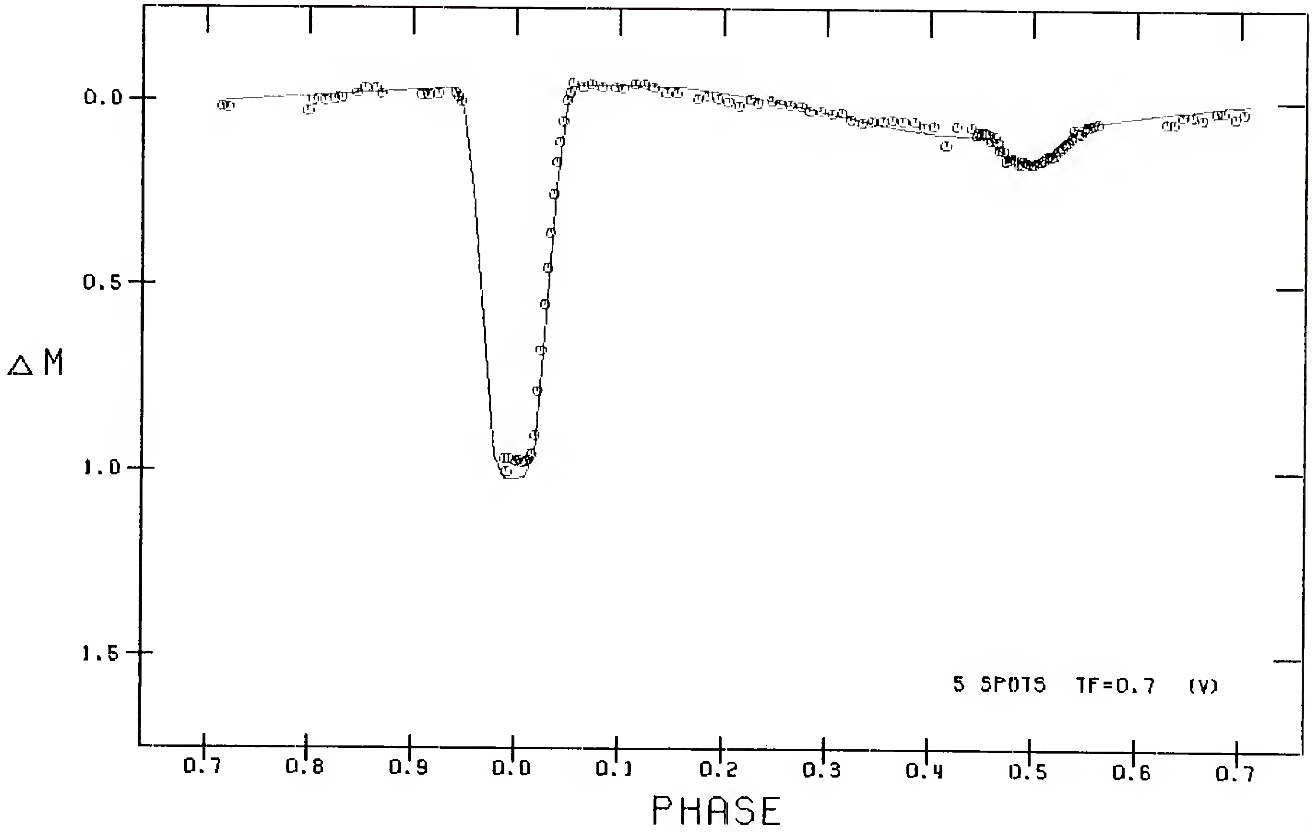

Fig. 7.-The five-spot solution light curve for a temperature factor of 0.7.

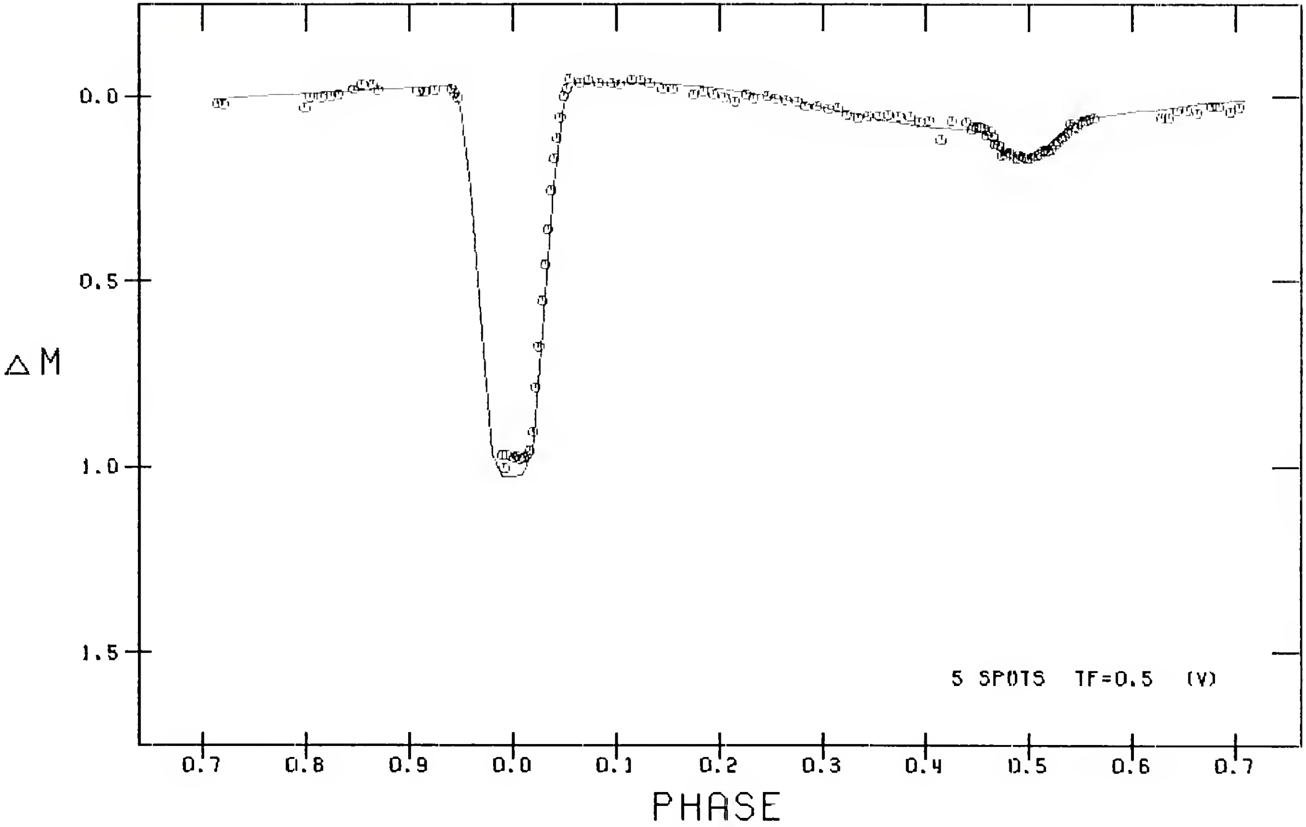

Fig. 8.-The five-spot solution light curve for a temperature factor of 0.5.

TABLE 11

FIVE-SPOT SOLUTION SPOT PARAMETERS

No.	Longitude (degrees)	Latitude (degrees)	Radius (deg.)	Temp. Factor
1	300	90	30	0.90
2	330	90	20	0.90
3	0	90	25	0.90
4	30	90	20	0.90
5	90	90	25	0.90

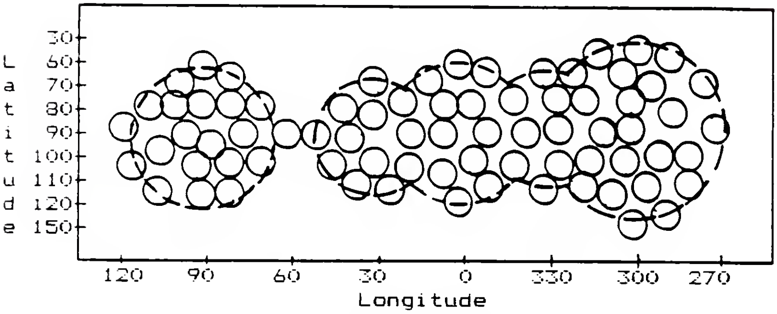

Fig. 9.—A map of the 75-spot model spot distribution, with the five-spot model indicated by dashed lines.

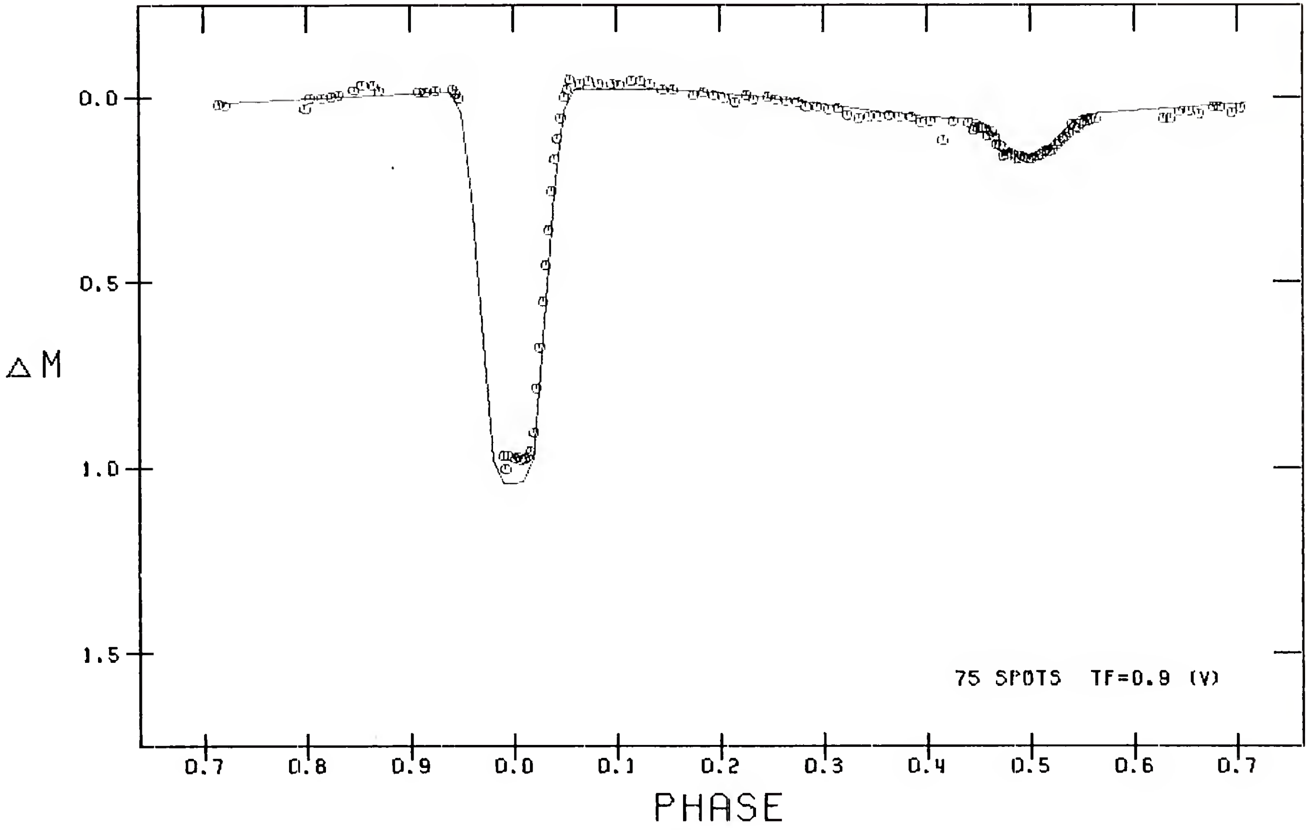

Fig. 10.-The 75-spot solution light curve.

secondary eclipse. Special runs of the light curve program were made using a very fine grid on the secondary star (N2 = 45, corresponding to two degree spacing of grid rows) and taking very fine steps in phase (0.0006 phase units per step). These program runs were made only from phase 0.4861 through 0.5137, the approximate annular phases of secondary eclipse of RS CVn. The output was examined to assure that it was smooth and continuous, and that it gave the same numbers as the whole-light-curve runs.

The results of these special runs are plotted in Figures 11 and 12, and may be compared directly to the plots of some observed eclipses of RS CVn (Figures 13 – 15). The results of these computer model runs and their comparison to the observational light curves will be discussed in the next chapter.

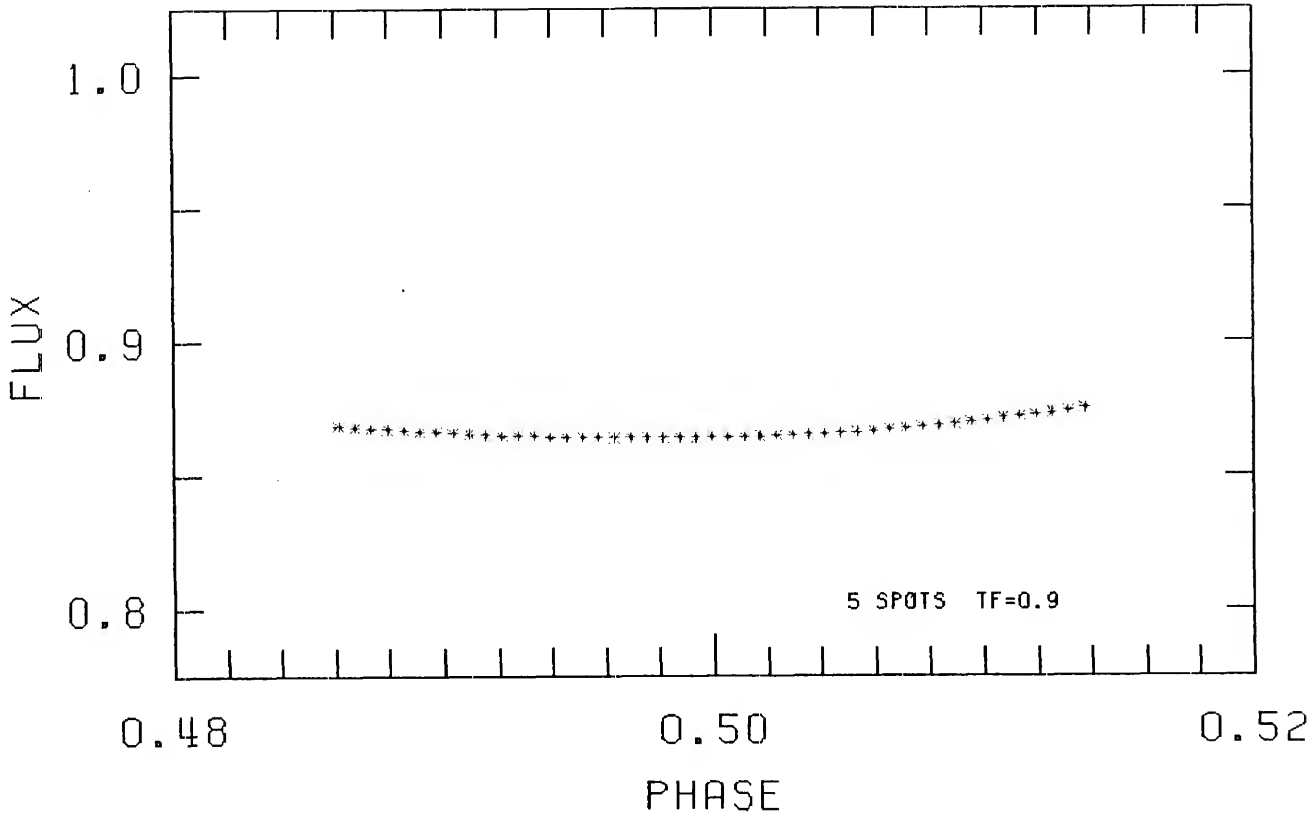

Fig. 11.-Secondary eclipse light curve for the 5-spot model.

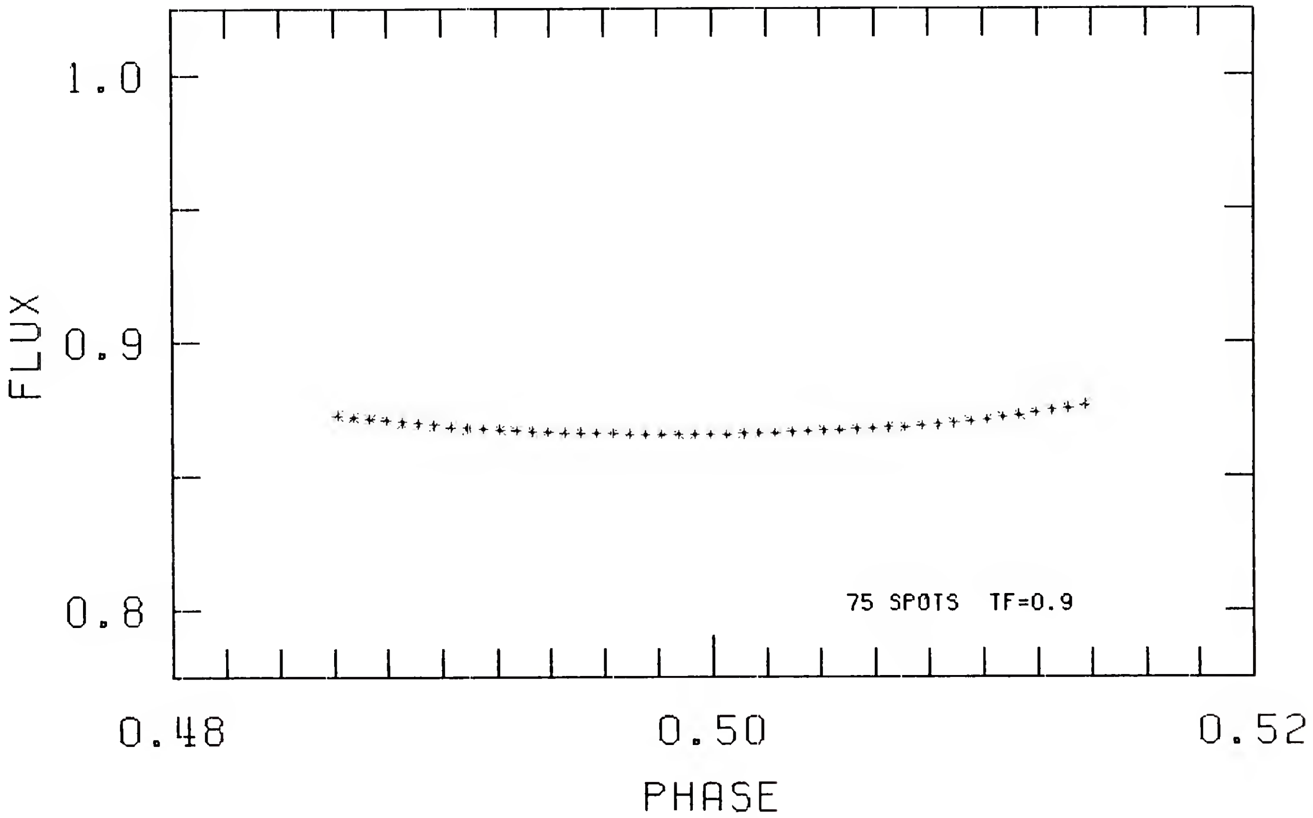

Fig. 12.-Secondary eclipse light curve for the 75-spot model.

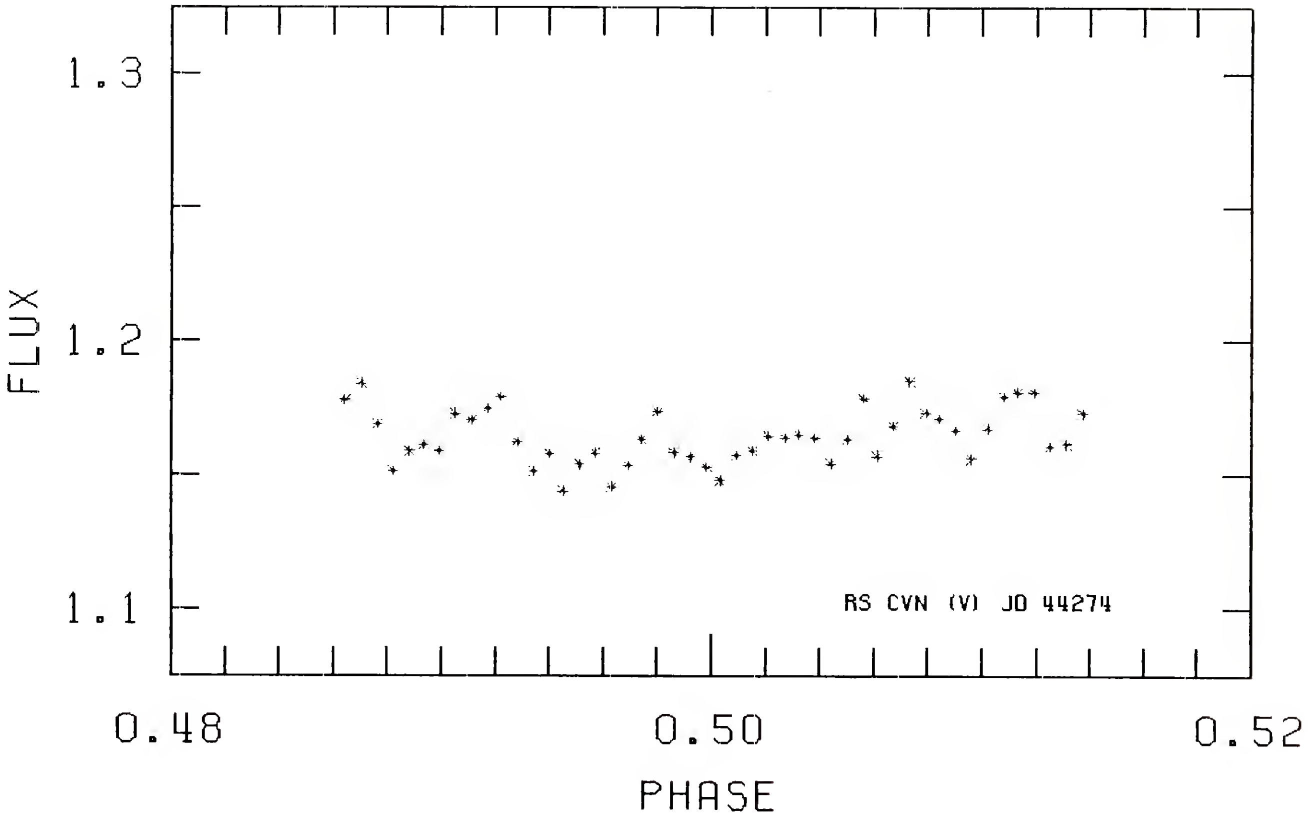

Fig. 13.-Observed visual secondary eclipse for RS CVn on JD 24 44274.

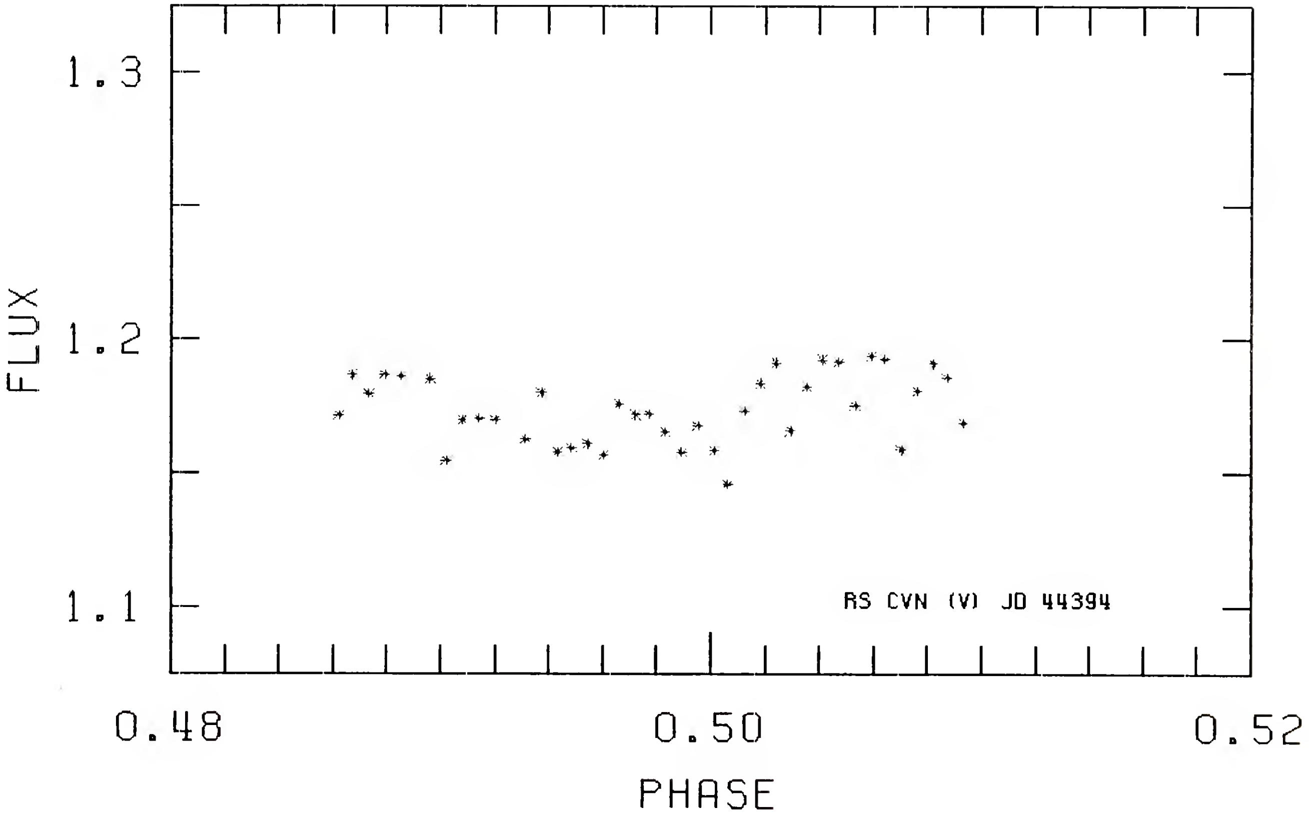

Fig. 14.-Observed visual secondary eclipse for RS CVn on JD 24 44394.

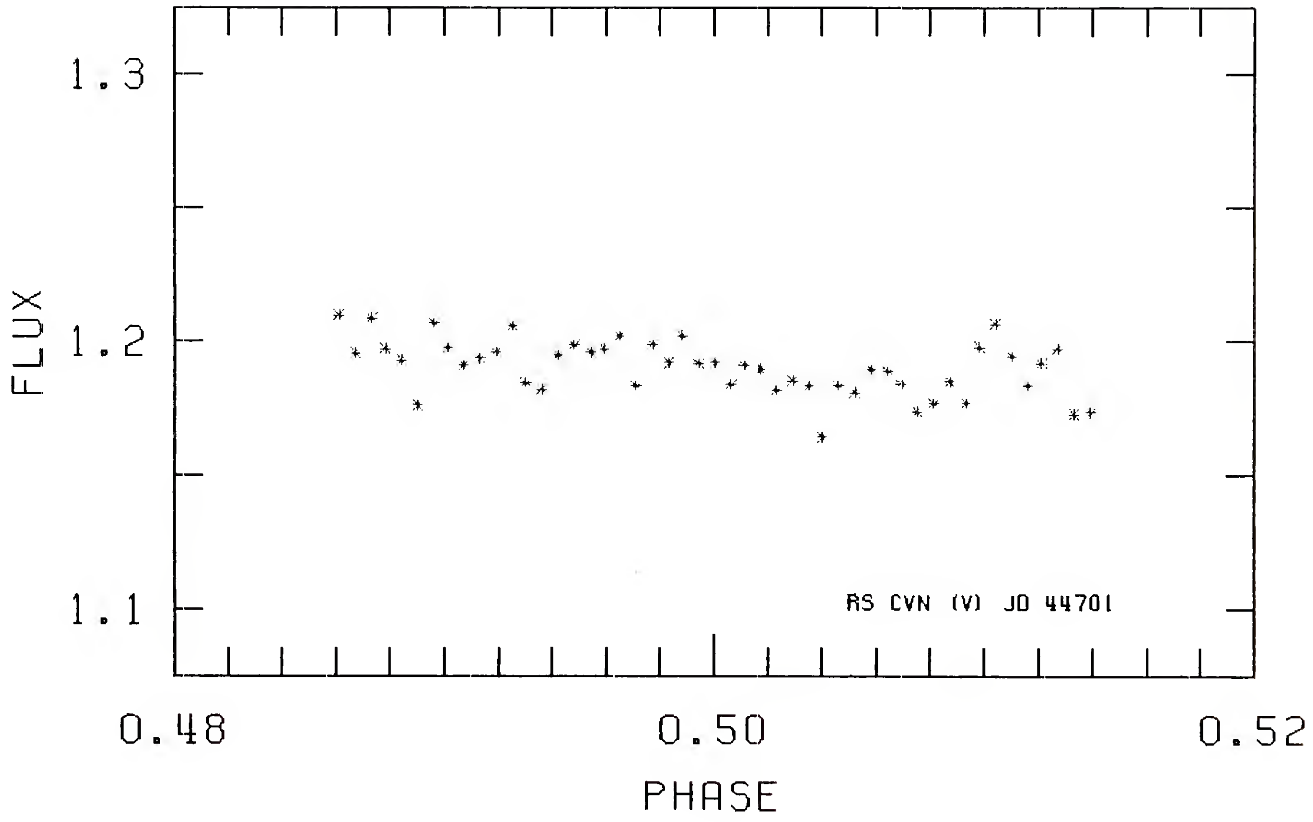

Fig. 15.-Observed visual secondary eclipse for RS CVn on JD 24 44701.

CHAPTER VI
DISCUSSION AND CONCLUSIONS

Photometry Results

In this section we will examine the light curves presented in Figures 18 - 105 in Appendix A, and discuss the results of the distortion wave analysis. For systems where there were sufficient data the discussion will be presented star by star. The remaining systems will be discussed at the end of this section.

RS Canum Venaticorum

RS CVn was well observed, especially outside eclipse, as a continuation of a monitoring program begun by John Oliver and Whit Ludington in 1975. The light curves are given in Figures 30 - 44. During all of this program the comparison star used was BD +35 2420. The check star primarily used was BD +35 2422. This comparison star has been shown by Ludington (1978) to be very stable; random checks made through the data taken in this work have confirmed this.

The computed values of the distortion wave parameters (given in Table 9) reveal an interesting movement of the wave. During the observing period the wave has appeared to move about a quarter of a cycle per year. The spotted area has thus moved in two years to the opposite hemisphere of the cool star. This movement, of course, is not likely to be due to the spots actually moving, but rather due to the birth and disappearance of spots, with new spots appearing at decreasing stellar longitude. This apparent motion is much faster than the average migration period for RS CVn's distortion wave. The average period according to Hall (1972) is about 23 years. This high rate of migration is probably responsible for some of the lack of repetition in the light curves, and emphasizes the necessity of obtaining a complete light curve in as short a time span as possible.

We note also that the amplitude of the distortion wave decreased significantly between the first and second observing seasons and essentially remained constant through the following season. This could indicate that the amplitude has reached a minimum and may soon go back up to its maximum of abou 0.25 magnitudes (in V). However, this is not the smallest amplitude ever observed. It has been as small as about 0.05 magnitudes in the V passband (Hall, 1972). It is noteworthy that this amplitude has not followed the cyclic prediction by Hall (1972). We have already noted in the Introduction (Chapter I) that Ludington (1978) also found departures from this prediction. The new data seem to indicate that Hall's prediction was premature. One should also note that the original cyclic model depended heavily upon a few early data points. Removal of these points makes the whole argument for a cyclic pattern less convincing.

Since unfavorable weather prevented observing any complete primary eclipse of RS CVn, it is not possible to look for period changes. The light curve plots do, however, look quite symmetrical about phase zero and seem to provide some further support for the improved ephemeris of Ludington (1978), which was used in the phase computations.

UX Comae Berenices

UX Com was only observed during the 1979-1980 season, primarily to obtain a secondary eclipse. Some out-of-eclipse observations were also obtained. The comparison star used was BD +29 2351 and the check star was BD +29 2304.

The light curves in Figures 45 - 47 show some interesting features. First, we should note that although phase coverage is minimal, it is sufficient to show that the ephemeris used in the phase calculations is no longer correct. The most striking feature common to all three light curves is the displacement of the points near phase 0.21. The data lie substantially above the rest of the light curve. These particular data were taken on J.D. 24 44371 (May 11-12, 1980), under good observing conditions. The check star measurements were examined for any evidence of change in the comparison star. On that night the comparison star was slightly fainter than its mean value, but only by a few hundredths of a magnitude. This difference is too low by an order of magnitude to account for the apparent increase in the brightness. While this type of displacement in RS CVn light curves is often a result of wave migration during the observing season, that may not be the case here. Data taken only five nights before, appearing at phase 0.84 in the plots, are not unusually displaced at all.

The light curves also show a bit more scatter than expected for photometry of a star of this magnitude. The light curves of RW UMa and RS UMi, stars of similar magnitude, appear to have less scatter. Also, the differential magnitudes of the check star do not show as much variation as those of the variable star. All of these light curve features suggest that UX Com might be showing some short time scale flaring.

The only other published light curve for UX Com is that of Popper and Dumont (1977). Their light curve for UX Com also shows more scatter than other light curves in the same paper. They used similar size telescopes (50cm, 40cm), at sites which generally have better seeing than Rosemary Hill (the observations were taken at Kitt Peak and Palomar Observatories). Their comparison star was the same as that used here. Thus there seems to be independent evidence for unusual activity in the light of UX Com.

The distortion wave analysis computations were made with the anomalous points near phase 0.21 removed. The results showed a wave, but the errors were large compared to the amplitude, and the solution is probably not to be trusted.

RZ Eridani

RZ Eri was observed during all three seasons. Its long period (39.28 days) means that spending about a half-hour to one hour observing this system results essentially in one normal point for that night. Since it is often cloudy in Florida for several days in a row, it is impossible to acquire a light curve over only one revolution of a system with a period of a few weeks. Thus the light curves for RZ Eri (Figures 54 - 68) cover a few revolutions, and any changes in the distortion wave may cause apparent scatter.

The comparison star used for RZ Eri was BD -10 977 and the check star was BD -10 982. All check star measurements for the 1978-1979 season were inspected, as well as some for 1979-1980, for changes in the comparison star. The comparison star appears to be constant to within ± 0.01 magnitudes (in the V filter).

Previous photometry by Caton and Oliver (1979) did not reveal any distortion wave. The work done here now indicates a wave of total amplitude of a few hundredths of a magnitude. Between the first and last observing seasons the wave had approximately doubled in amplitude. It is interesting that this is correlated with a change in the coefficient A_0 of about 0.05 magnitudes. Since A_0 is the mean differential magnitude (variable minus comparison), this means that the system became fainter by 0.05 magnitudes over this two year period. This is exactly the trend expected if the spotted star's spot area increases: the distortion wave amplitude increases as the sytem brightness drops.

GK Hydrae

GK Hya was observed in the first two seasons only, with the main emphasis on outside-of-eclipse coverage. The comparison star used was BD +2 1990 and the check star was BD +3 1997.

Only a few nights of data were obtained in 1978-1979, and no eclipses were observed. Much better coverage was obtained the following year, including a small amount of eclipse data. The light curves are presented in Figures 69 - 77. The ephemeris used in the phase calculations appears to be essentially correct.

The data for 1978-1979 were not analyzed for a distortion wave because there were too few points for a meaningful solution. The analysis for 1979-1980 suggested a very small wave with an amplitude of a few hundredths of a magnitude or less in each color (see Table 9). Although the errors are about half the amplitudes, the wave phases found in all three colors are consistent. It is not clear then whether there is a wave in the light curve of GK Hya. Hall (1981), indicates only detection of variation for GK Hya, in his table of compiled results.

AR Lacertae

AR Lac was observed during all three observing seasons. In 1978-1979, only minimal coverage was obtained. During the following season a great deal of data was acquired. In that season an attempt was made to take data each night spaced in equal intervals of time (4 minutes from variable to comparison and back to variable). In order to make this possible, no observations were taken through the U filter during that or the following season (1980-1981). During the last season only two nights of data were obtained. These were two successive nights, providing primary and secondary eclipses.

In all observations except the 1980-1981 primary eclipse the comparison star used was BD +47 3711 and the check star was BD +46 3574. This particular comparison star is three degrees from AR Lac, but it is a good match in color to AR Lac. In the 1980-1981 primary eclipse observations the comparison star was BD +44 4044 and the star previously used for the comparison was used for the check star. This was done to make the data more useful in an inter-observatory campaign on AR Lac that year. The reduced data in Appendix B were computed using the two different comparison stars. For plotting the light curves for 1980-1981, an offset was applied to the primary eclipse data. The offset for each color for that night was calculated from measurements of the check star, which was the comparison star on the previous night. These offsets (magnitude of BD +44 4044 minus the magnitude of BD +47 3711), are -1.05 and -1.71 for V and B, respectively. The resulting light curves look peculiar but in fact overlay perfectly the 1979-1980 light curves (See Figures 81 - 84).

The gaps in the 1979-1980 light curve exist because of periods of bad weather during the observing season. Since the period of AR Lac (1.983 days) is almost commensurate with the day, a long observing season is needed to obtain a complete light curve. This, of course, is not a desirable condition for observing RS CVn systems. Further, it is almost an impossible condition in Florida for observing AR Lac, which is best placed for observing in late summer. Florida skies are generally cloudy and hazy from about June through August.

The light curves for 1979-1980 (Figures 81 - 82) show a peculiar bump near phase 0.3. With the bump and wide eclipses it is difficult to see any wave in the outside-of-eclipse light. However, the distortion wave analysis was performed anyway, with the results shown in Table 9. The amplitudes are seen to be very small with errors of the same order, and even larger than the amplitude itself in the B filter. Thus we must conclude that there is no significant overall sinusoidal distortion wave in the light curve.

LX Persei

LX Per was observed during 1978-1979 and 1979-1980, with the emphasis on obtaining outside-of-eclipse observations. The comparison star used was BD +47 794 and the check star BD +47 776. We note from the light curves (Figures 85 - 90) that the ephemeris used in the phase calculations is no longer correct.

The distortion wave analysis yielded very small amplitudes, of the order of a few hundredths of a magnitude, with errors of the same order. The solution therefore appears rather weak. Also, the light curves appear quite flat outside eclipse, and so one does not expect the analysis to find a significant wave.

TY Pyxidis

TY Pyx was only observed during the 1978-1979 season, when only outside-of-eclipse observations were obtained. The comparison star was HD 77087 and the check star was SAO 176546. The light curves are shown in Figures 91 - 96.

Again with TY Pyx, the results of the wave analysis are somewhat unclear. The full amplitudes are of the order of a few hundredths of a magnitude, with errors of the same order of magnitude. Additionally, the computed phases of the wave for the three colors differ over a range of 0.31 in phase, lending less confidence in the solution.

RW Ursa Majoris

RW UMa was only observed on five nights during the 1978-1979 season. No eclipse observations were obtained. The comparison star was BD +52 1576; a star about six minutes to the south of RW UMa was used as the check star. This star, not in the BD atlas, is the same used by Oliver (1974) as a comparison star. The light curves are presented in Figures 100 - 102. The analysis of the observations produced a wave of total amplitude of about 0.1 magnitudes in the V, and somewhat less in the B and U. The computed phases in the three colors are fairly close to each other. The result is quite believable, and is about the same as that listed by Hall (1981).

Other Systems

Six other systems were observed and have light curves either too sparse or poorly distributed for proper analysis. These systems, however, do have their light curves given in Appendix A and their data tabulated in Appendix B. The comparison and check stars used are given in Table 12.

TABLE 12

COMPARISON AND CHECK STARS FOR OTHER SYSTEMS

Name	Comparison Star	Check Star
UX Arietis	62 Ari	HR 999
CQ Aurigae	BD +31 1187	BD +31 1173
RU Cancri	BD +24 1963	BD +24 1966
WW Draconis	BD +61 1607	BD +61 1607
V711 Tauri	10 Tau	12 Tau
RS Ursa Minoris	BD +72 704	BD +72 701

One should note that in the photometry of WW Draconis the faint companion star to the variable was measured with the variable, since it could not reliably be excluded from the field of view. The tabulated observations have not been corrected for this extra light.

Starspot Observability

The most remarkable aspect of the synthetic light curves of secondary eclipses generated for the spotted star models is their smoothness. The detailed features that might be expected in such a light curve are not visible in Figures 11 and 12. These curves are shown redrawn with a greatly expanded flux scale in Figures 16 and 17, where the average flux has been subtracted and the remaining differential flux plotted. The only irregularities visible are of the order of a few ten-thousandths in flux units (and thus also a few ten-thousandths in magnitude). The 75-spot model has perhaps only a few more features than the five-spot model.

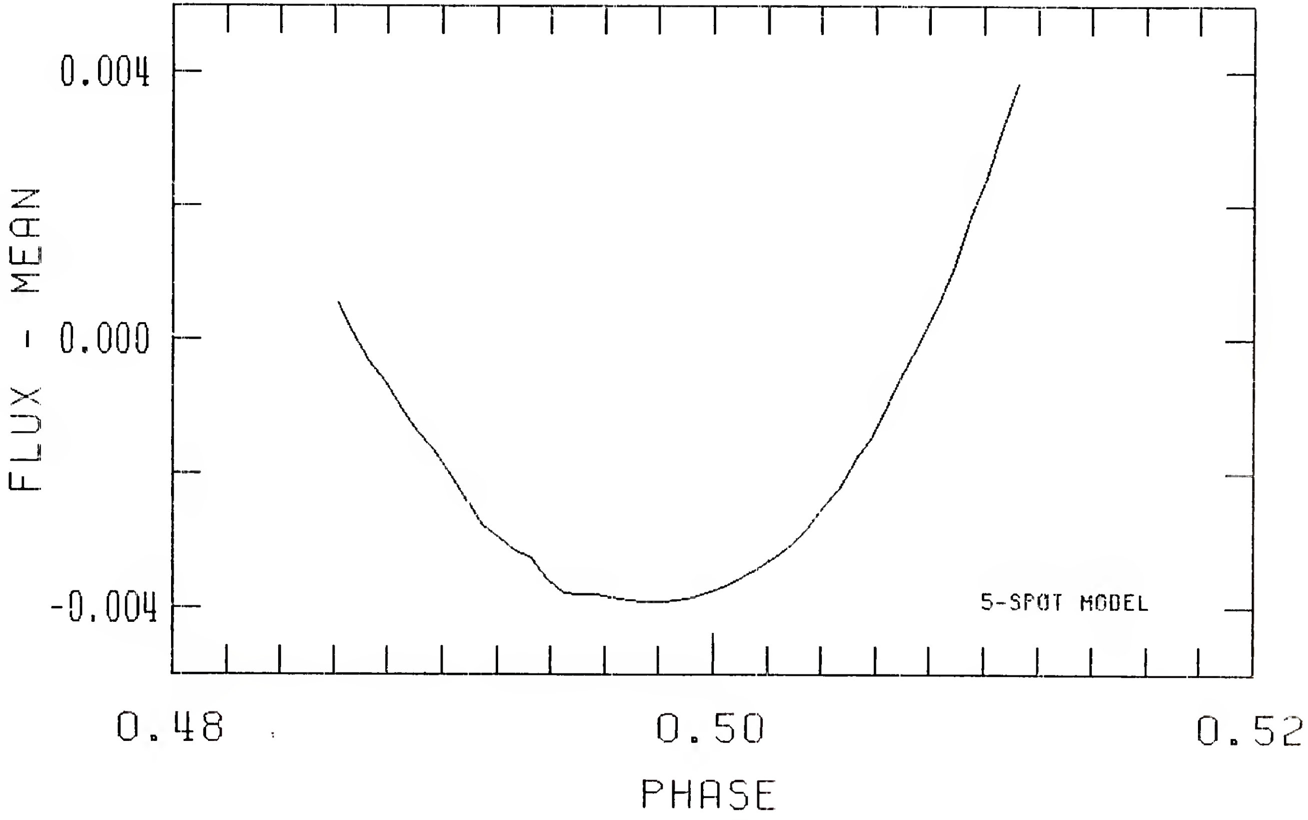

Fig. 16.-The 5-spot model secondary eclipse plotted on an expanded scale.

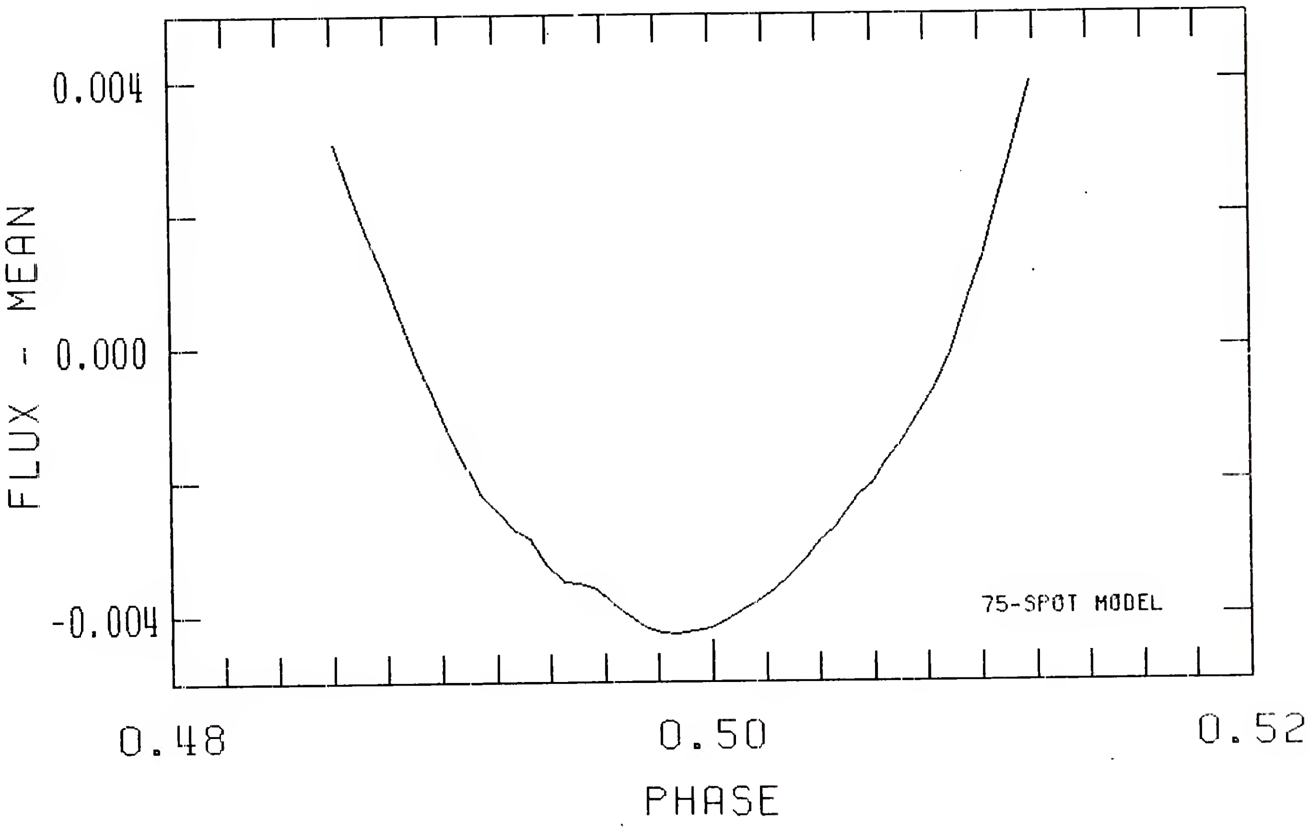

Fig. 17.-The 75-spot model secondary eclipse plotted on an expanded scale.

It thus appears that starspots are not likely to be detected by observing for irregularities in the eclipse light curves. The fluctuations are an order of magnitude smaller than the typical rms errors in the best ground-based photoelectric photometry done anywhere today. The best work possible using the 46cm telescope at Rosemary Hill appears to be about one order of magnitude worse, with rms errors for normal points of about 0.01 magnitude. This is also about the best measurement-to-measurement repeatability for successive comparison star measurements made on nights of exceptional seeing at Rosemary Hill.

Even if one could measure the light curve of secondary eclipse to the required precision (perhaps using satellite photometry), it is very doubtful that spot size information could be derived from the results. The two model eclipse curves generated in this work show similar eclipse features and yet have individual spot sizes differing by a factor of five. It appears that the two types of spot distributions are smoothed out about equally by the geometry of the eclipse event. For a few large spots, there are only one or two spots being slowly covered and uncovered during the eclipse. In the 75-spot model there are more discrete spots, but at any moment several of them are appearing or disappearing behind the primary star. In principle, differences would appear in the power spectrum, but the detecting of these differences would appear to be a practically impossible task.

This strongly suggests that any activity observed during an eclipse of an RS CVn system must be some type of low-level flare activity, rather than any kind of geometrical effect related to spots. Jakate (1980) suggested that scatter in his primary eclipse observations of SZ Piscium was due to spots. There are no eclipses of spots during primary totality, and projection effects and limb darkening would certainly smooth out any light curve fluctuations due to rotation of the spotted star. Thus one must conclude that, if the scatter in his data is significant, it may be the first indication of some type of optical flaring in RS CVn systems. However, his argument for the significance of this scatter is not totally convincing. The scatter does not appear to be very different outside and inside totality, and no explanation is given for the straight reference lines drawn through the data.

The eclipse observations taken for this dissertation were optimized for possible Fourier analysis, but it is obvious that such analysis could not yield any significant results. The effects due to the spots have been shown here to be much smaller than the observational scatter. Fourier techniques will not help much, yet will introduce a host of other problems, such as aliasing, sampling errors, and observational window effects. The disadvantages of dealing with these difficulties would outweigh any advantages offered by Fourier methods.

New Directions for Future Research

The RS Canum Venaticorum stars comprise an interesting group for study, both from observational and theoretical viewpoints. The challenges of understanding the physical mechanisms involved in starspots are matched by the challenges of obtaining the high quality data necessary to perfect our models. This dissertation should provide help in choosing future directions of research on RS CVn systems.

We have seen that it is probably not possible to learn much about the spot or spot-group sizes from current ground-based photoelectric photometry. Further efforts along these lines may well be a waste of effort and telescope time. When the Space Telescope becomes available, it will be worth reconsidering the possibility of spot detection, based upon the capabilities of such an instrument.

What directions should future ground-based observations take? There are several general areas for new approaches to be taken. First, the current monitoring programs should be maintained. We currently only have good UBV photometry for a few RS CVn systems, covering about a decade. RS Canum Venaticorum itself has been observed extensively, and these observations must continue. However, it would be useful to obtain light curves yearly for a number of RS CVn systems. This coverage needs to be obtained over a few decades in order to study the periodic and secular changes in the distortion waves. Much of this work can easily be done with small to moderate size instruments, such as the 46cm telescope at Rosemary Hill. It seems that it would be appropriate and very useful to have an inter-observatory program coordinated by one observatory. Such a program would reduce duplication of effort, ensure adequate coverage of all systems, and help to provide common standards of quality. Efforts along these lines were made initially by the IAU Commission 42 Working Group on RS CVn Binaries, but seem to have slowed down. At this writing there has not been an IAU Commission 42 Working Group Circular in over a year. Greater communication than this is needed for an effective program.

A major effort should be made to obtain sets of light curves that cover single (or a minimum number of), orbits for the systems. There are three approaches that come to mind: (1) an internationally coordinated observing program, (2) satellite observations, and (3) establishing a South Pole observatory. The first has been discussed above and would need a higher degree of organization than it has at present in order to meet this goal. The second approach may be partially satisfied by use of the Space Telescope. It is perhaps an oversight that to date most astronomical satellites launched have been made only to look in new spectral windows not available to ground-based instruments. Perhaps a small (50 to 100cm) space telescope, devoted to high quality medium-band photometry of bright objects would be a useful tool. It would probably reveal much new information in the same passbands as currently observed from the ground. The last proposal is also a good approach, providing uninterrupted data acquisition without the risks and serviceability problems inherent in satellites. With new advances in computer control, telecommunications and remote-sensing in general, it may be possible to control a polar telescope remotely, perhaps requiring only a night assistant. The low overhead and general efficiency make this a viable alternative to typical observatory staffing, especially in an inaccessible location such as the South Pole.

Further work needs to be done in non-visual passbands, on RS CVn systems. There has been very little work done in the infrared, where light curves of these systems should look quite different, according to Wilson (1981). Complete light curves in U, B and V would help in determining the percentage of stellar surface covered by spots, and the temperatures of these spots. Although three color photometry was done in this study, color information was used only in approximately determining the fit of the spot model for one system. Further investigations into spot areas and temperatures may be made using the data provided here. A coordinated effort to obtain simultaneous photometry in many passbands over a minimum time span, for some RS CVn systems, would provide new insights.

The possiblity of observing low-level optical flares in RS CVn systems might be interesting to pursue. Very high precision photometry, probably best using a two-star photometer, would be required. Observations should be made during the total phases of primary eclipses, with other data taken outside of eclipse, on the same nights if possible, to provide references for the noise levels. Perhaps before such an observing program is started the possibilities of flare detection could be explored theoreticially in the same way that spot detection was explored in this dissertation. With slight modification the SPOT subroutine could be made to turn on and off hot spots at certain phases to simulate flares during eclipse. This would be a bit more difficult than spot modeling, though, because while we can make reasonable guesses of spot temperatures (and spots are essentially black at temperature factors of less than 0.5), flare temperatures and areas are a bit more uncertain. Thus it may be wise to search observationally for flaring, especially if theoretical predictions yield borderline possibilities.

The overall picture of RS CVn systems is beginning to come into focus. The most important theoretical work, as discussed in the Introduction, has led us to an understanding of the structure and evolution of these systems. The spot model seems to have withstood criticism and provides the best model to work with. There are many details to this model that remain to be worked out. A continuation of the acquisition of good data of all kinds on RS CVn systems should help us toward these goals.

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APPENDIX A
LIGHT CURVES OF OBSERVED SYSTEMS

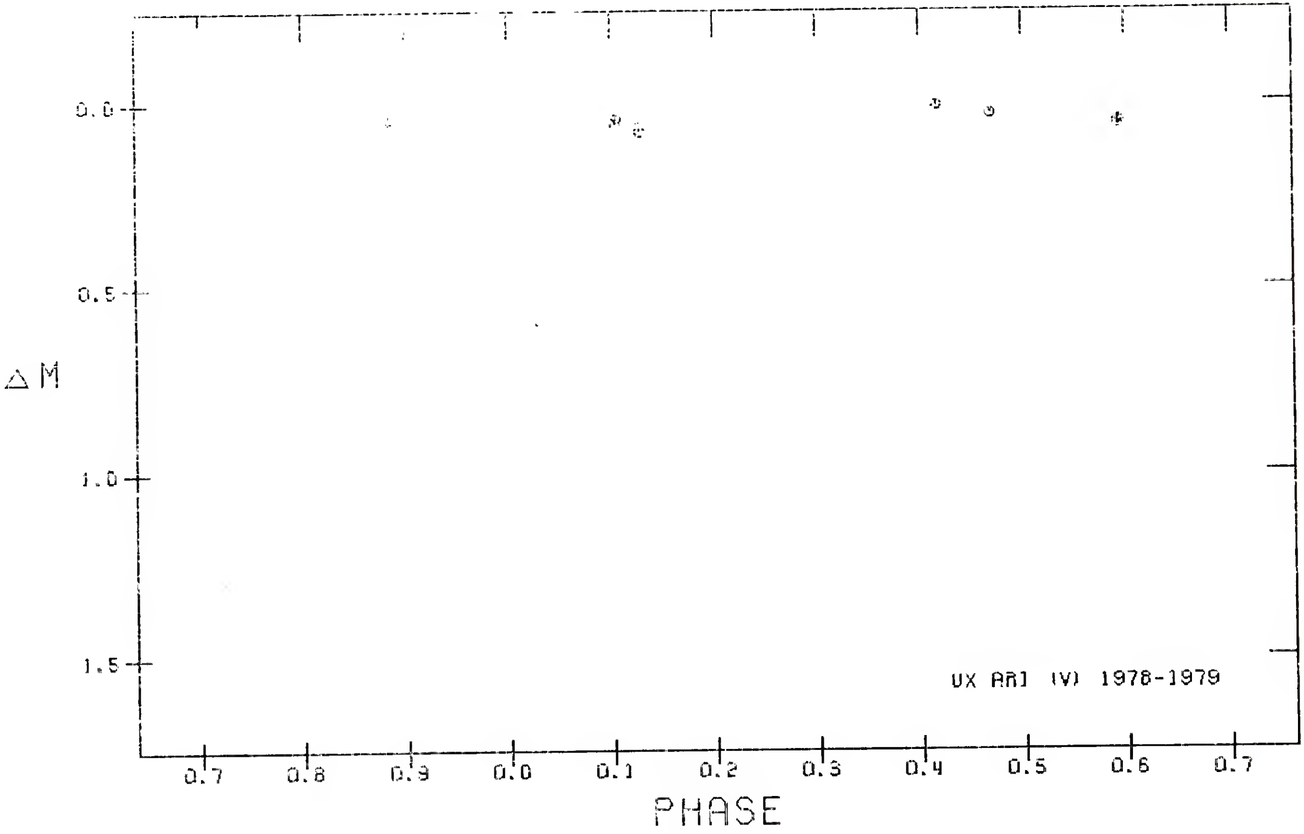


Fig. 18.-1978-1979 visual light curve for UX Ari.

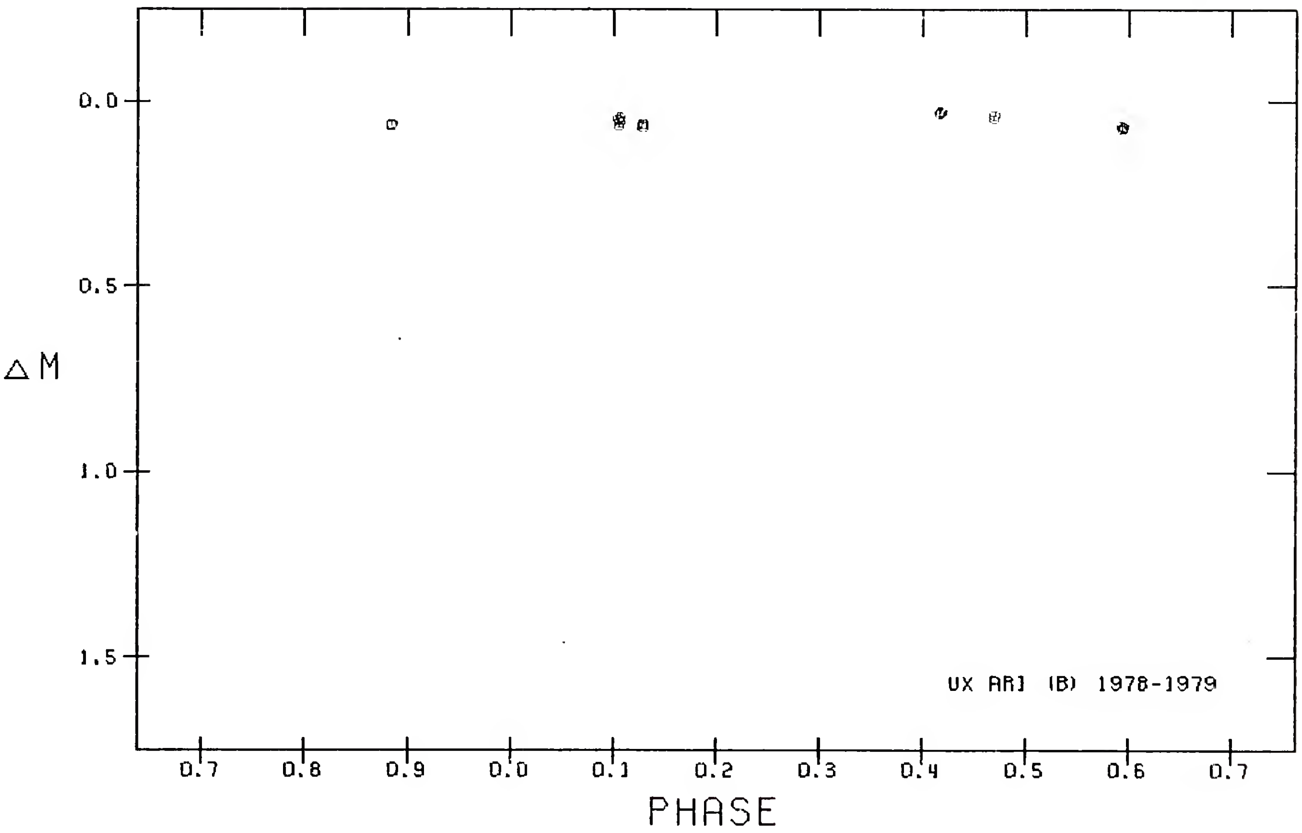


Fig. 19.-1978-1979 blue light curve for UX Ari.

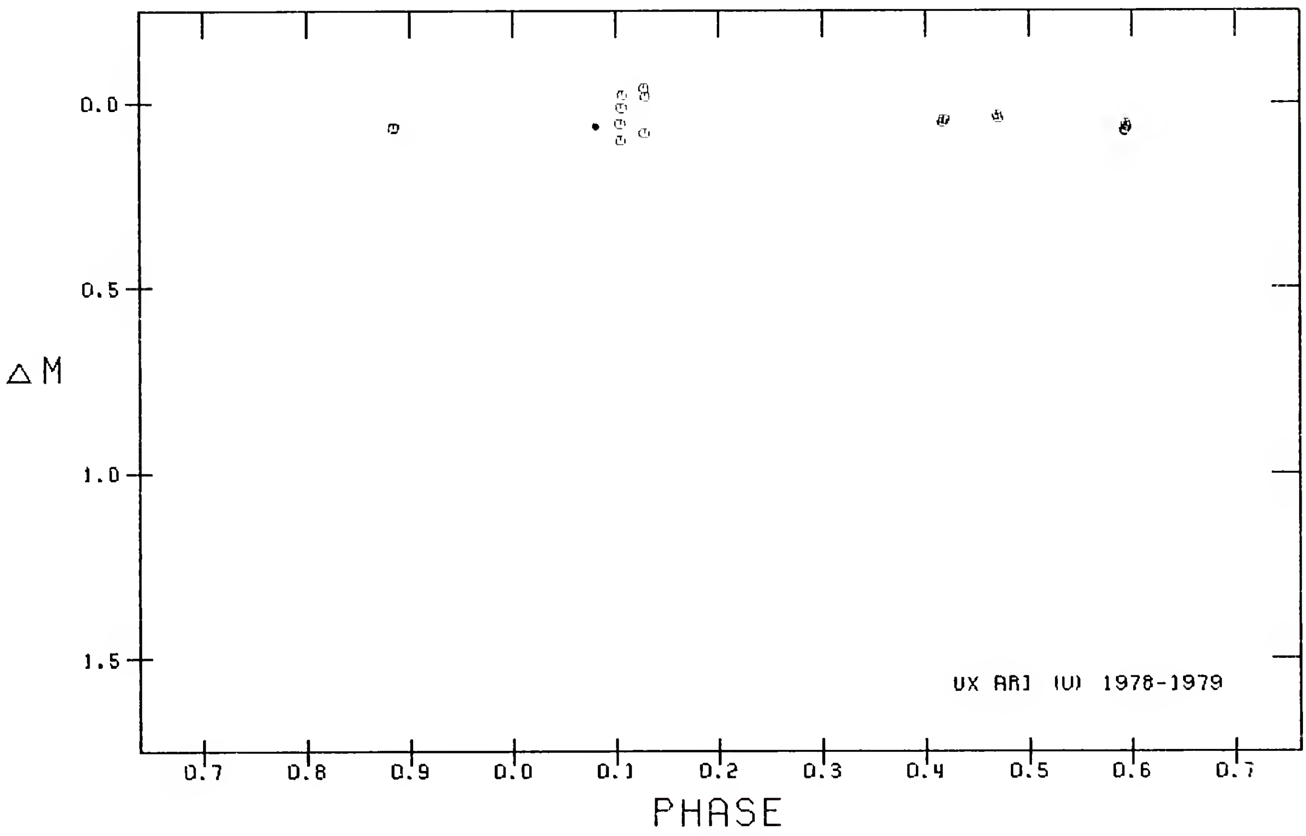


Fig. 20.-1978-1979 ultraviolet light curve for UX Ari.

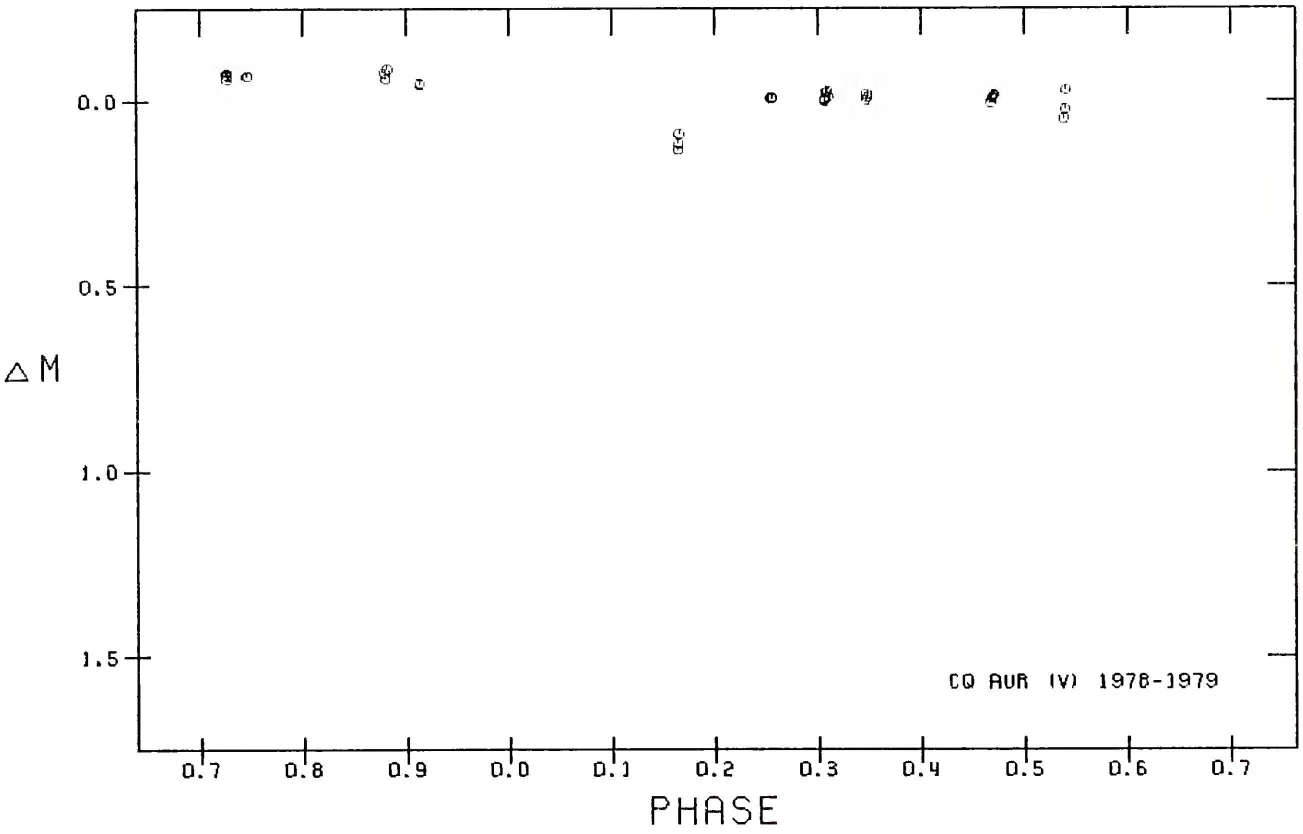


Fig. 21.-1978-1979 visual light curve for CQ Aur.

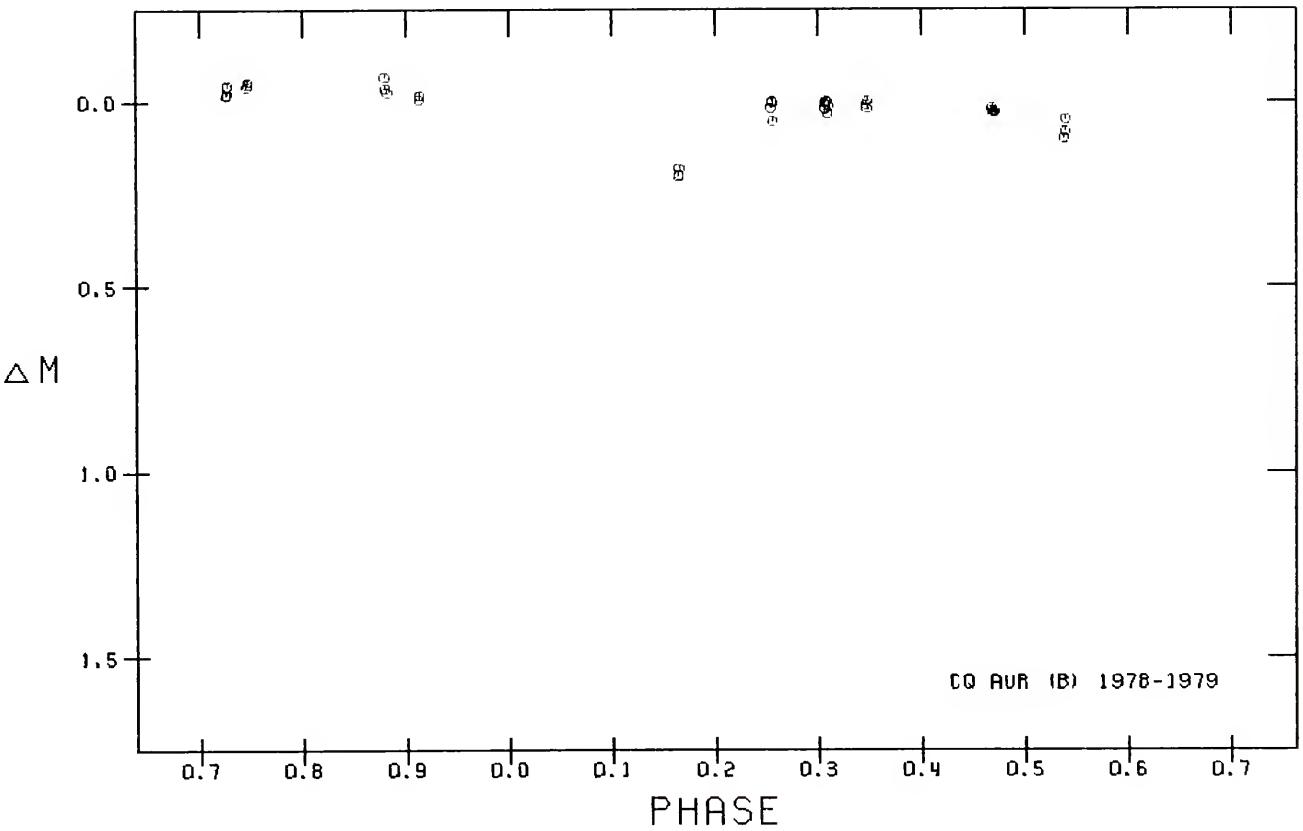


Fig. 22.-1978-1979 blue light curve for CQ Aur.

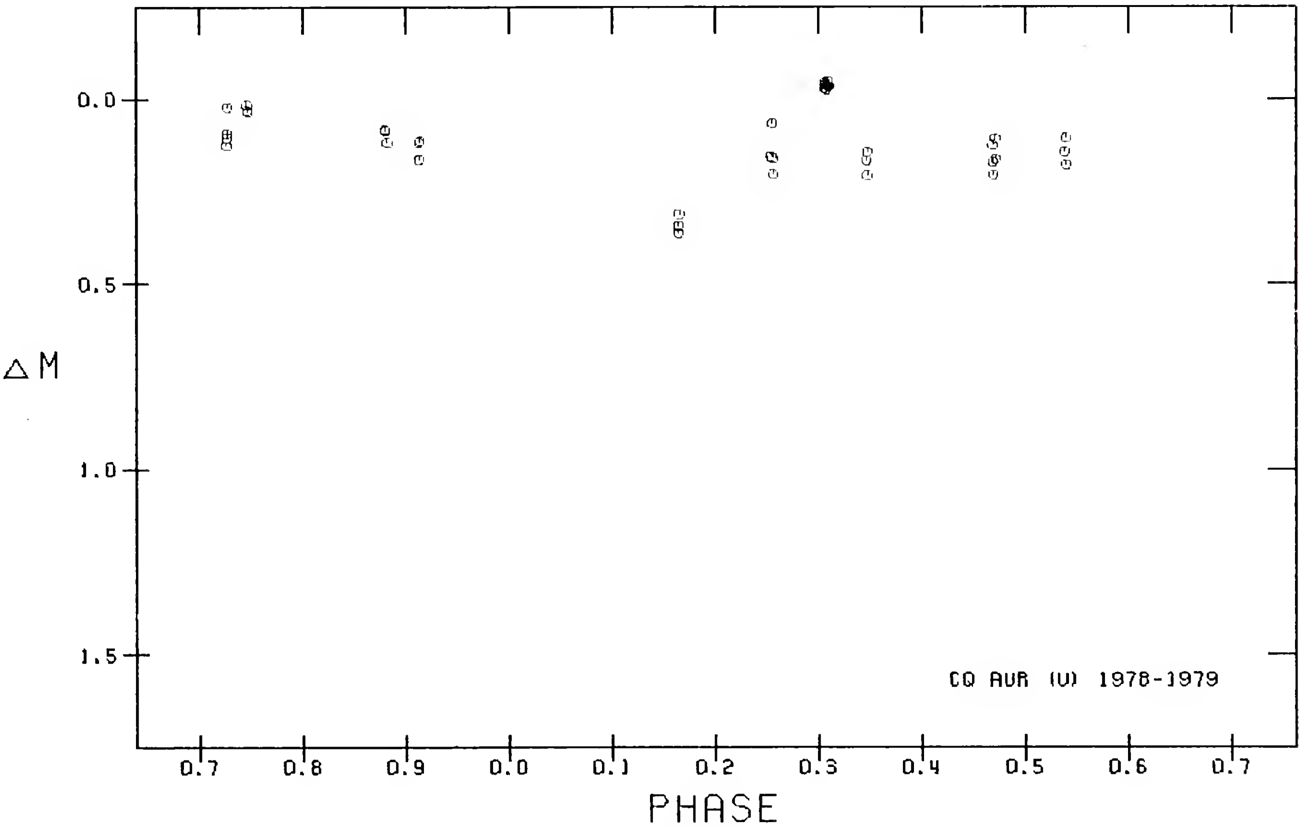


Fig. 23.-1978-1979 ultraviolet light curve for CQ Aur.

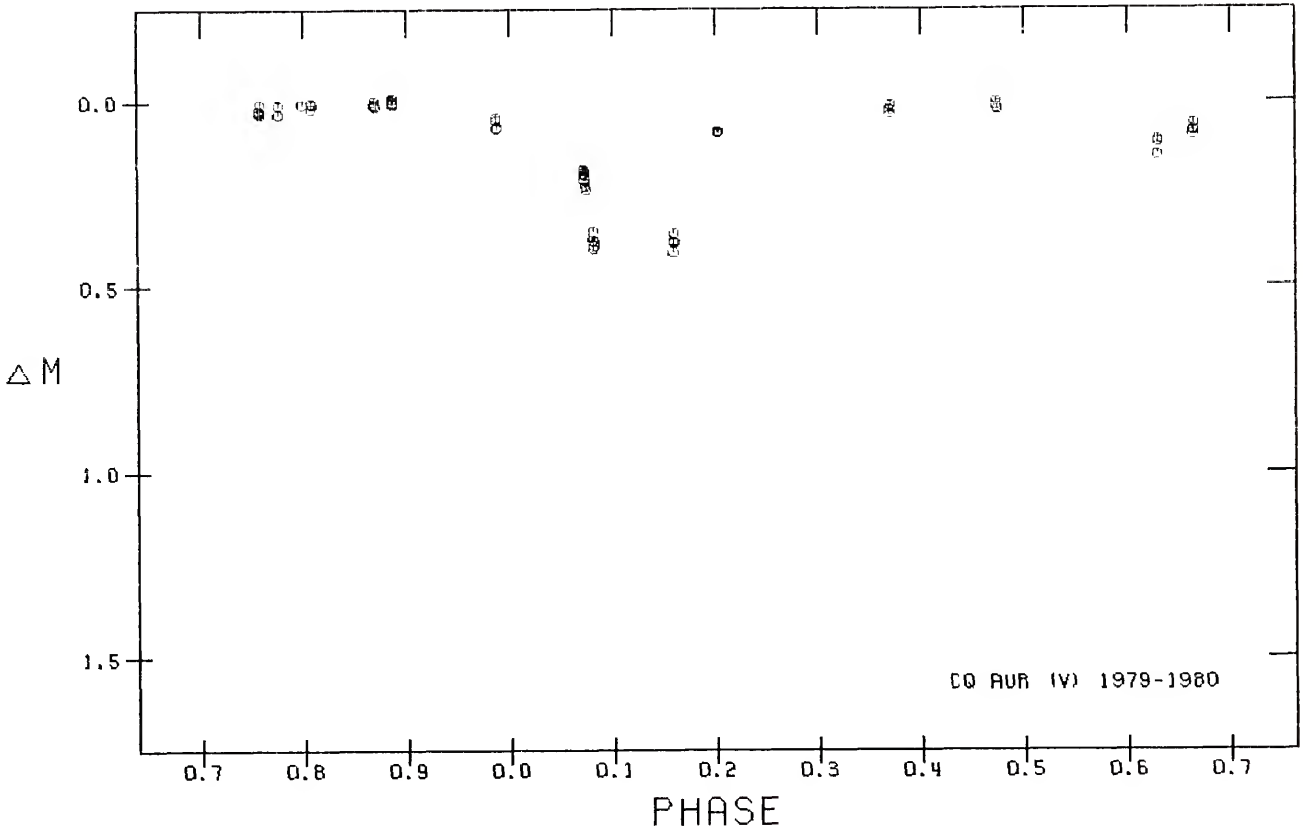


Fig. 24.–1979–1980 visual light curve for CQ Aur.

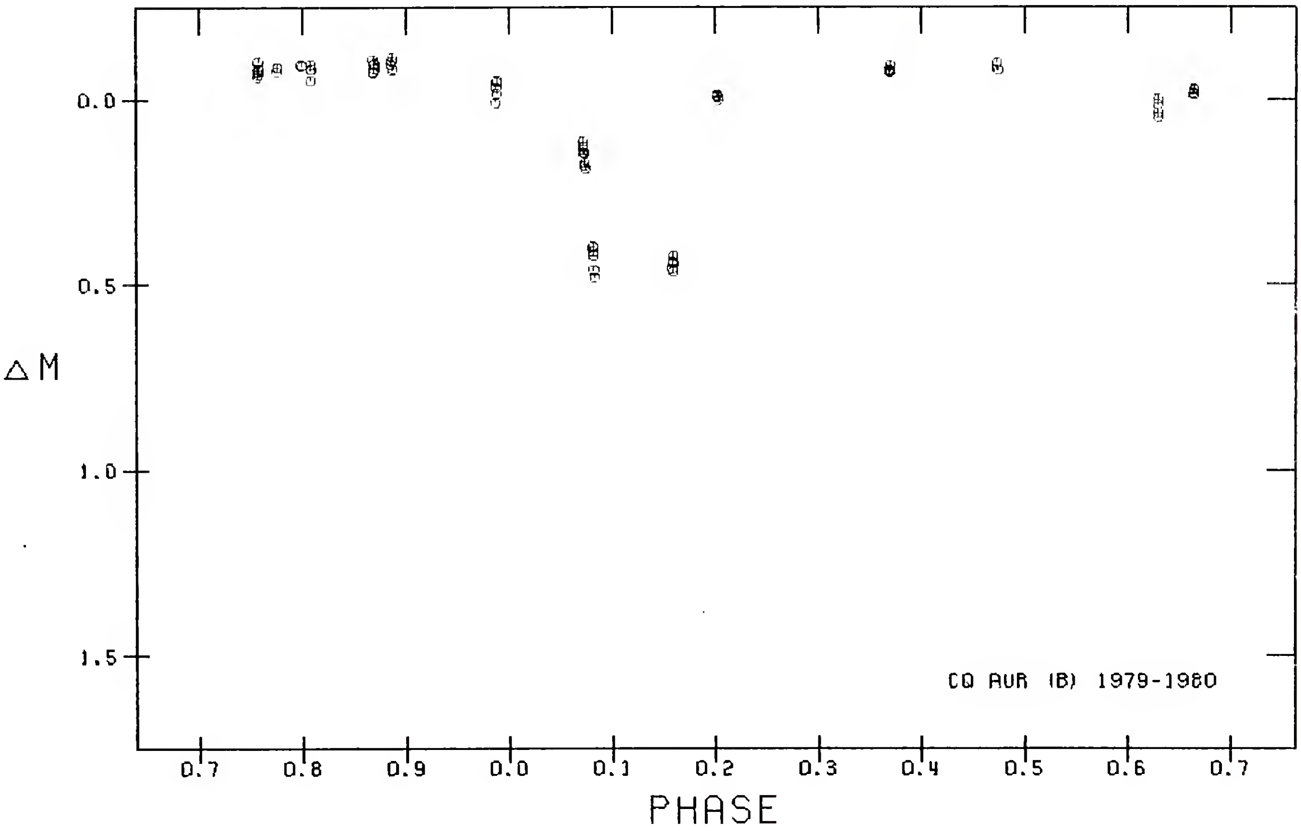


Fig. 25.-1979-1980 blue light curve for CQ Aur.

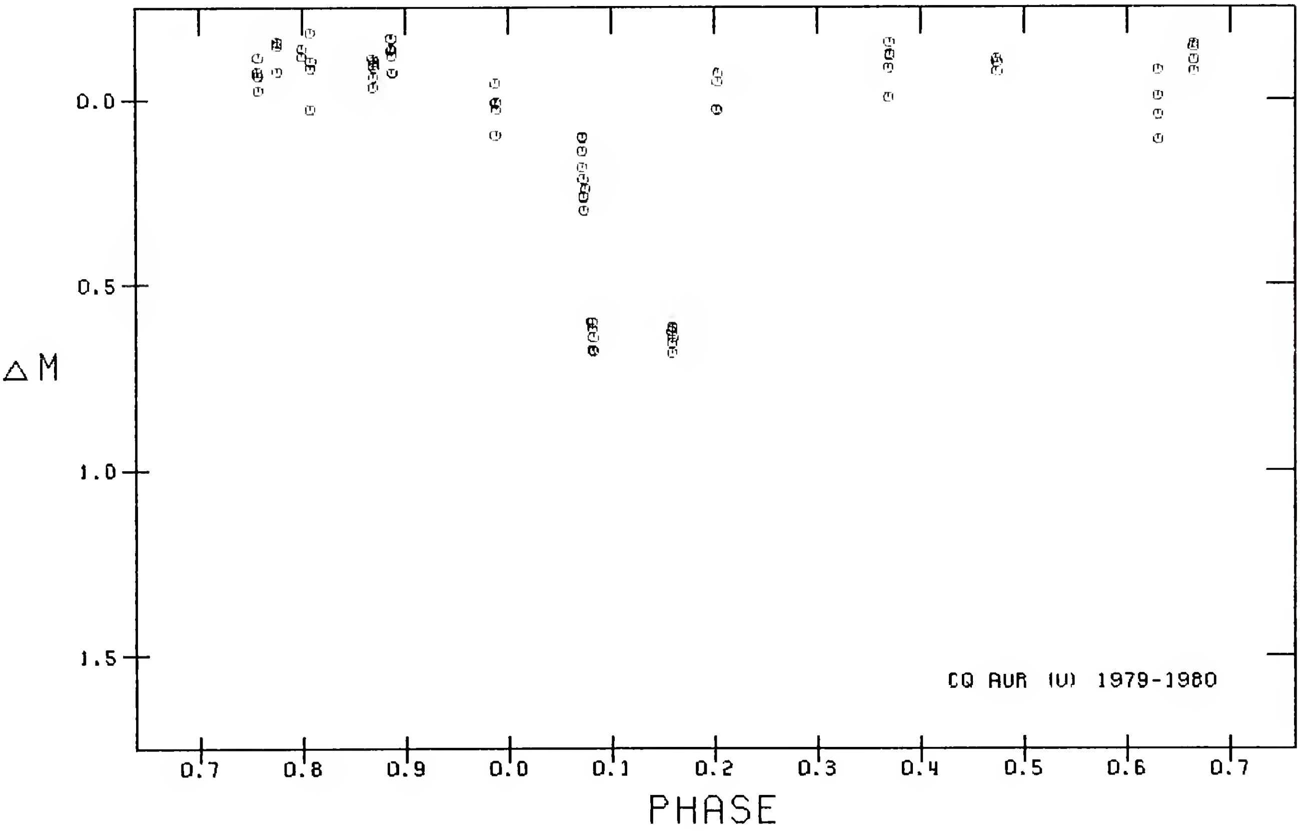


Fig. 26.-1979-1980 ultraviolet light curve for CQ Aur.

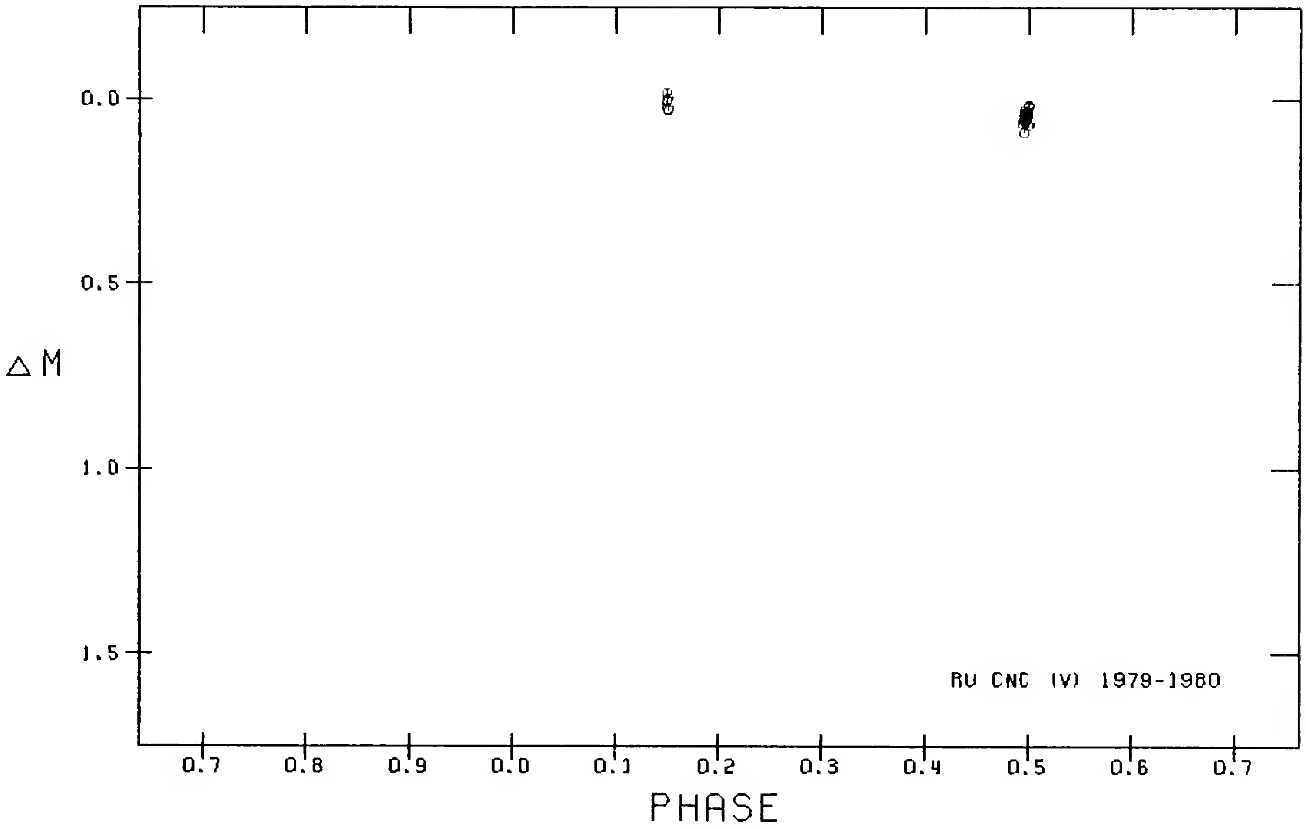


Fig. 27.-1979-1980 visual light curve for RU Cnc.

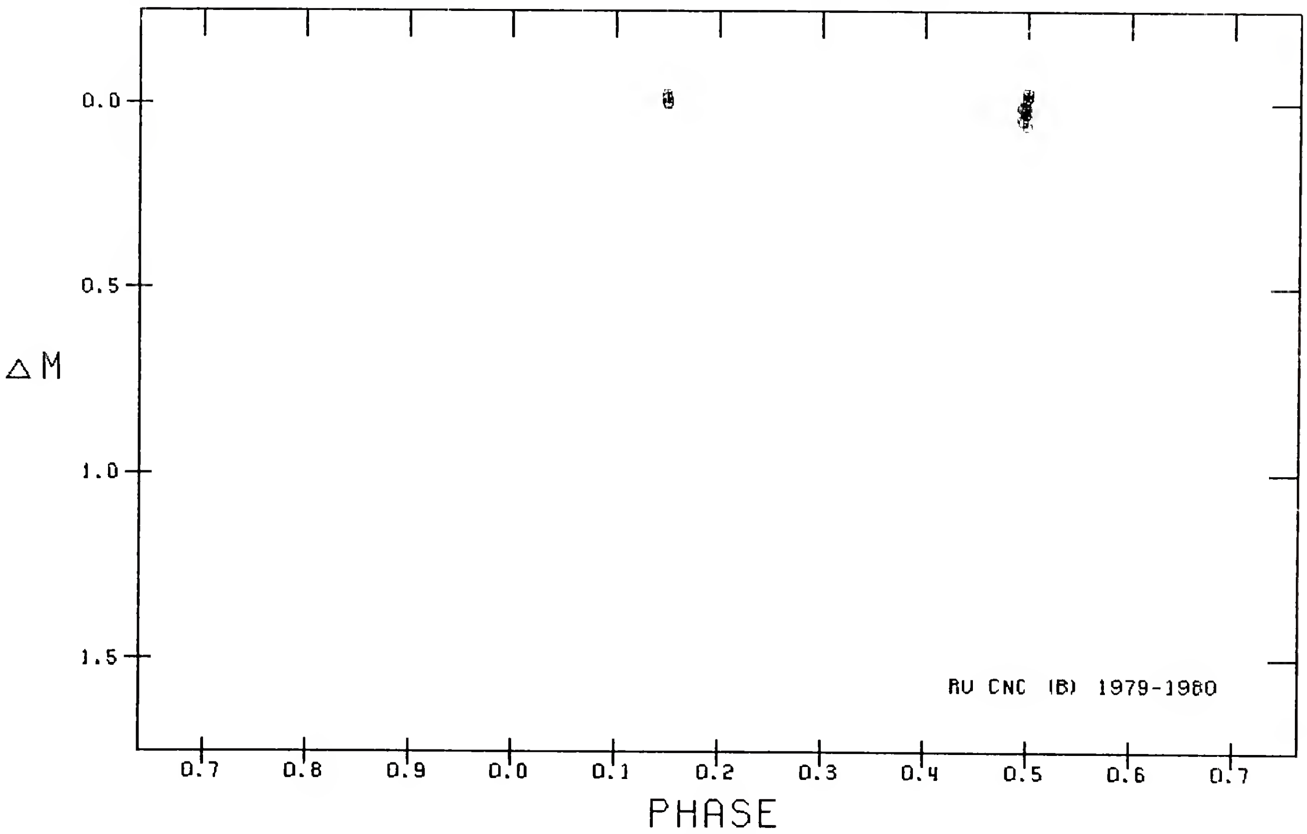


Fig. 28.-1979-1980 blue light curve for RU Cnc.

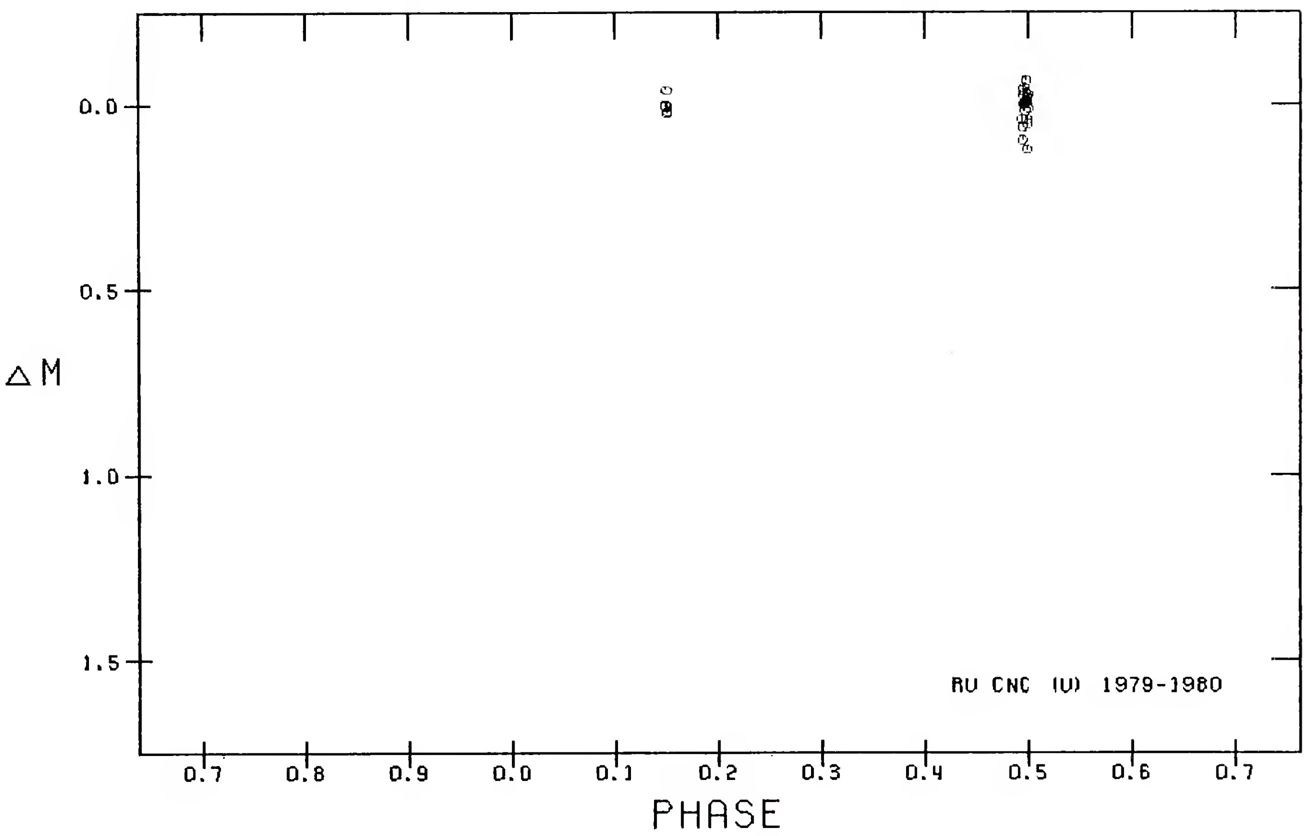


Fig. 29.-1979-1980 ultraviolet light curve for RU Cnc.

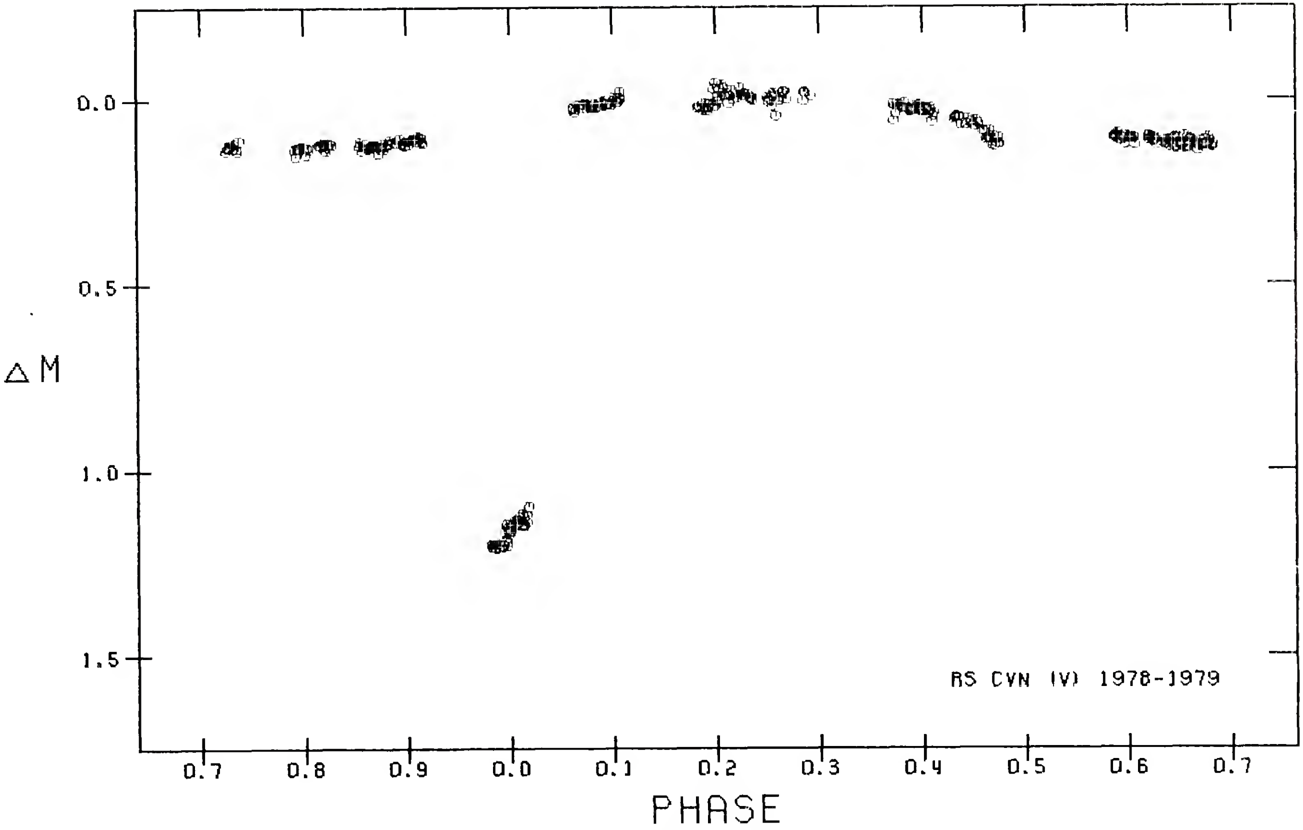


Fig. 30.-1978-1979 visual light curve for RS CVn.

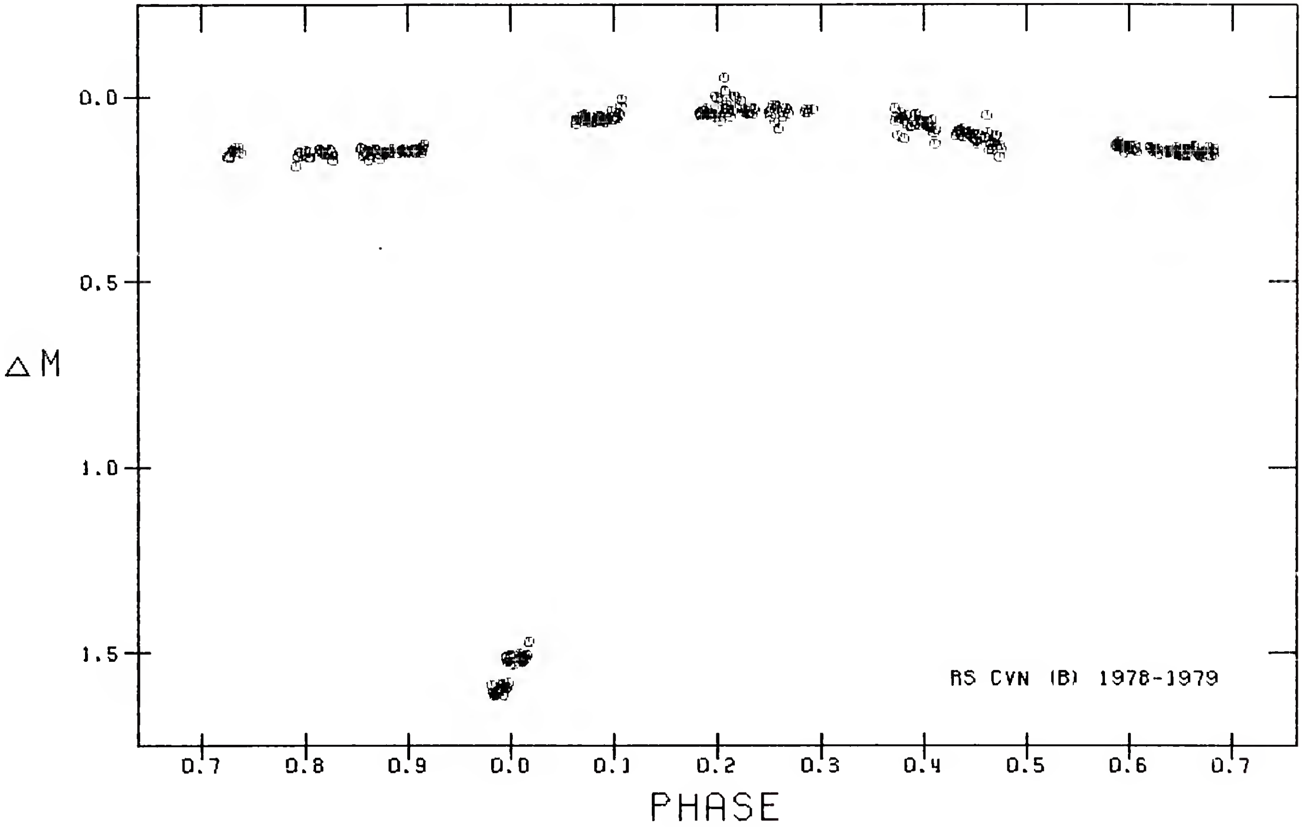


Fig. 31.-1978-1979 blue light curve for RS CVn.

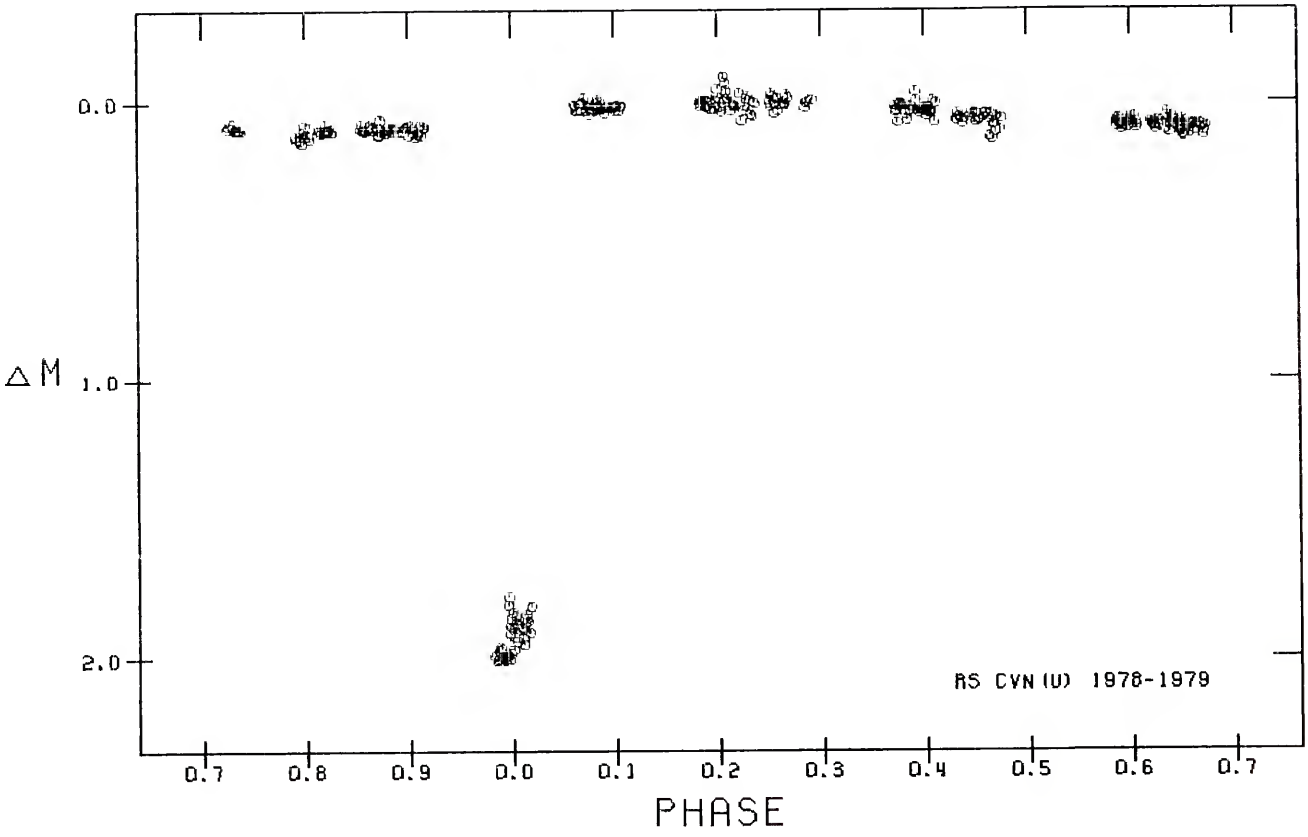


Fig. 32.-1978-1979 ultraviolet light curve for RS CVn.

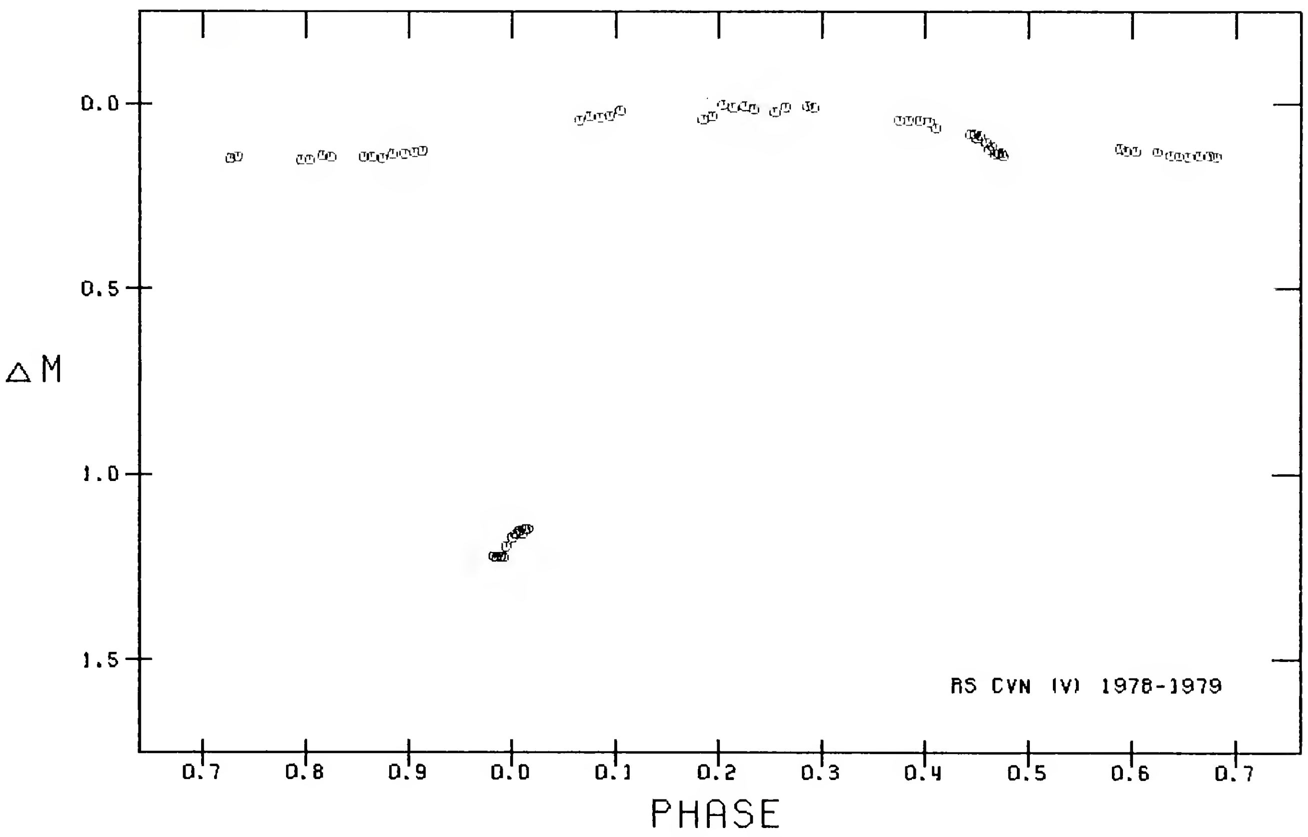


Fig. 33.-1978-1979 visual normal points for RS CVn.

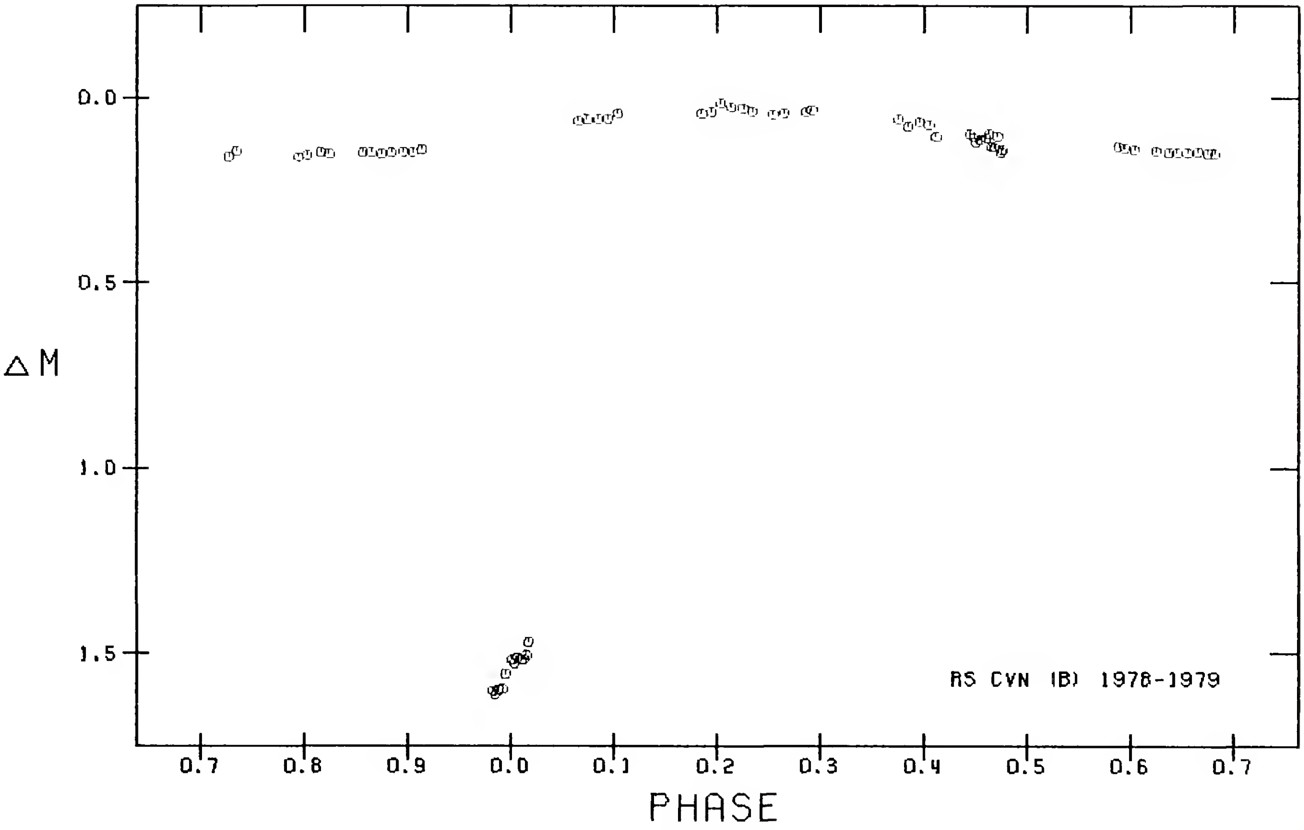


Fig. 34.-1978-1979 blue normal points for RS CVn.

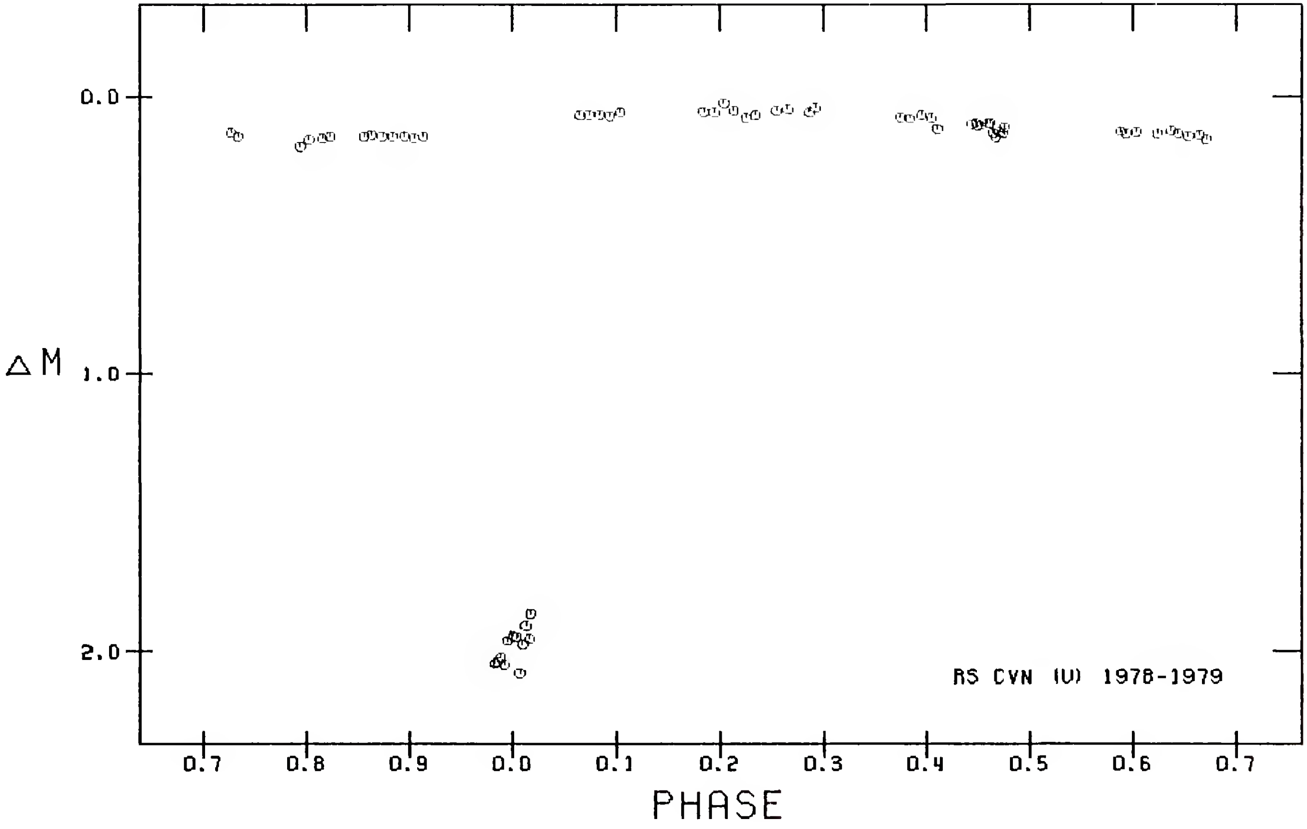


Fig. 35.–1978–1979 ultraviolet normal points for RS CVn.

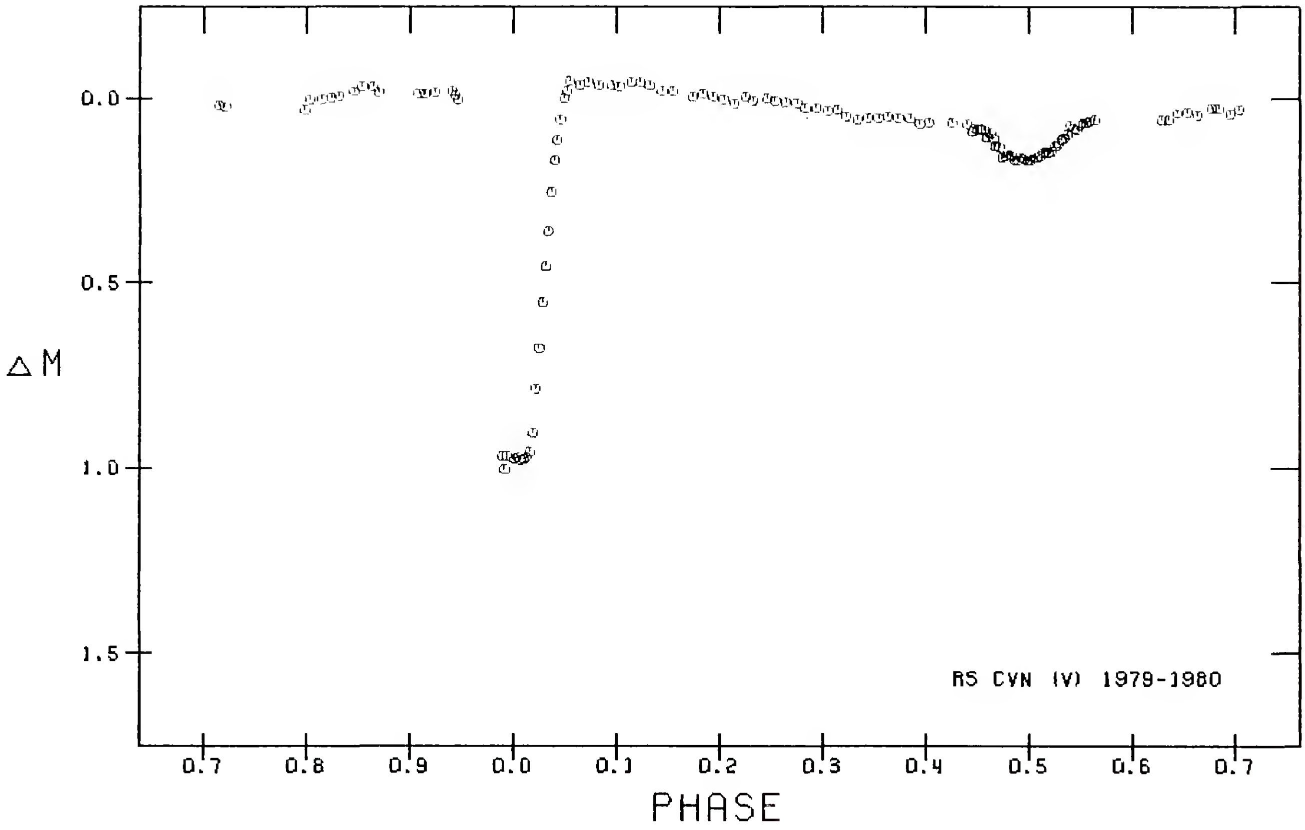


Fig. 36.-1979-1980 visual normal points for RS CVn.

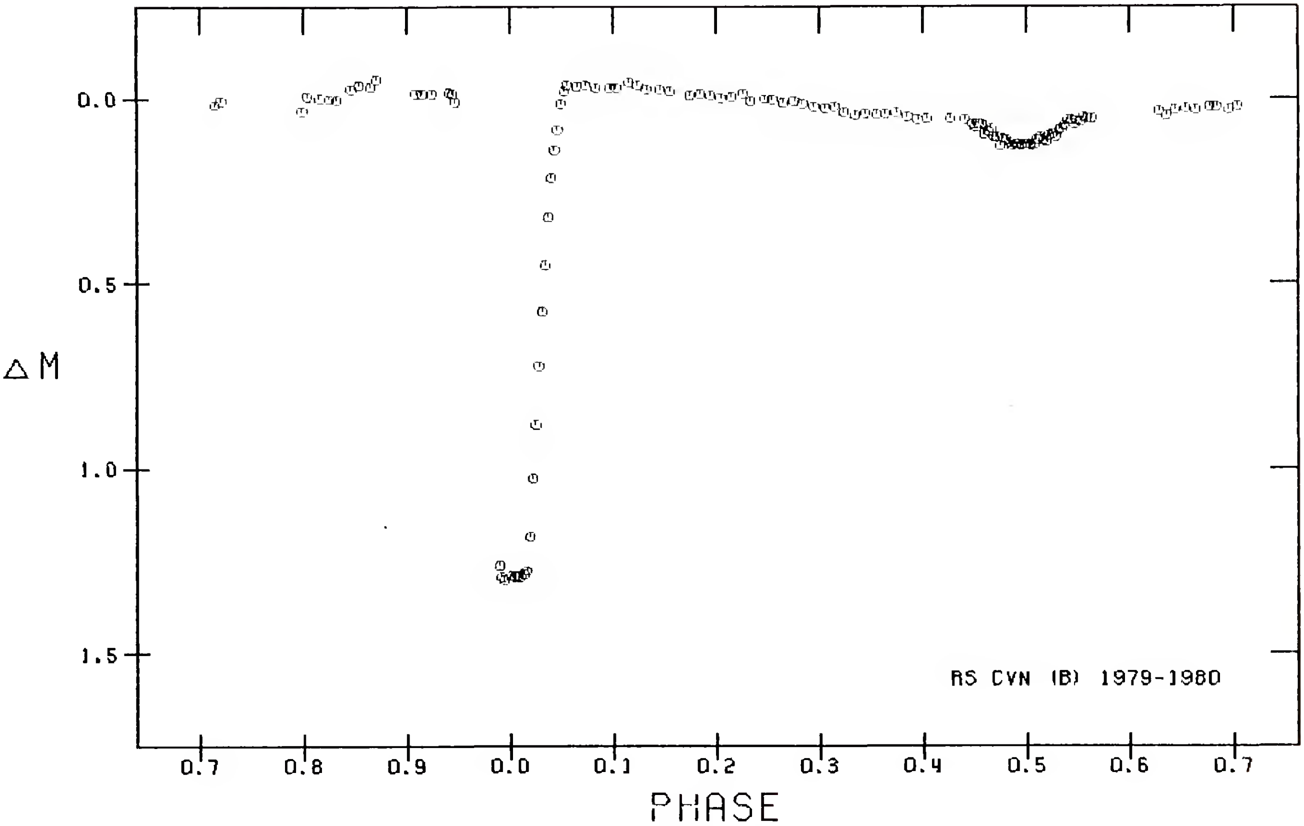


Fig. 37.-1979-1980 blue normal points for RS CVn.

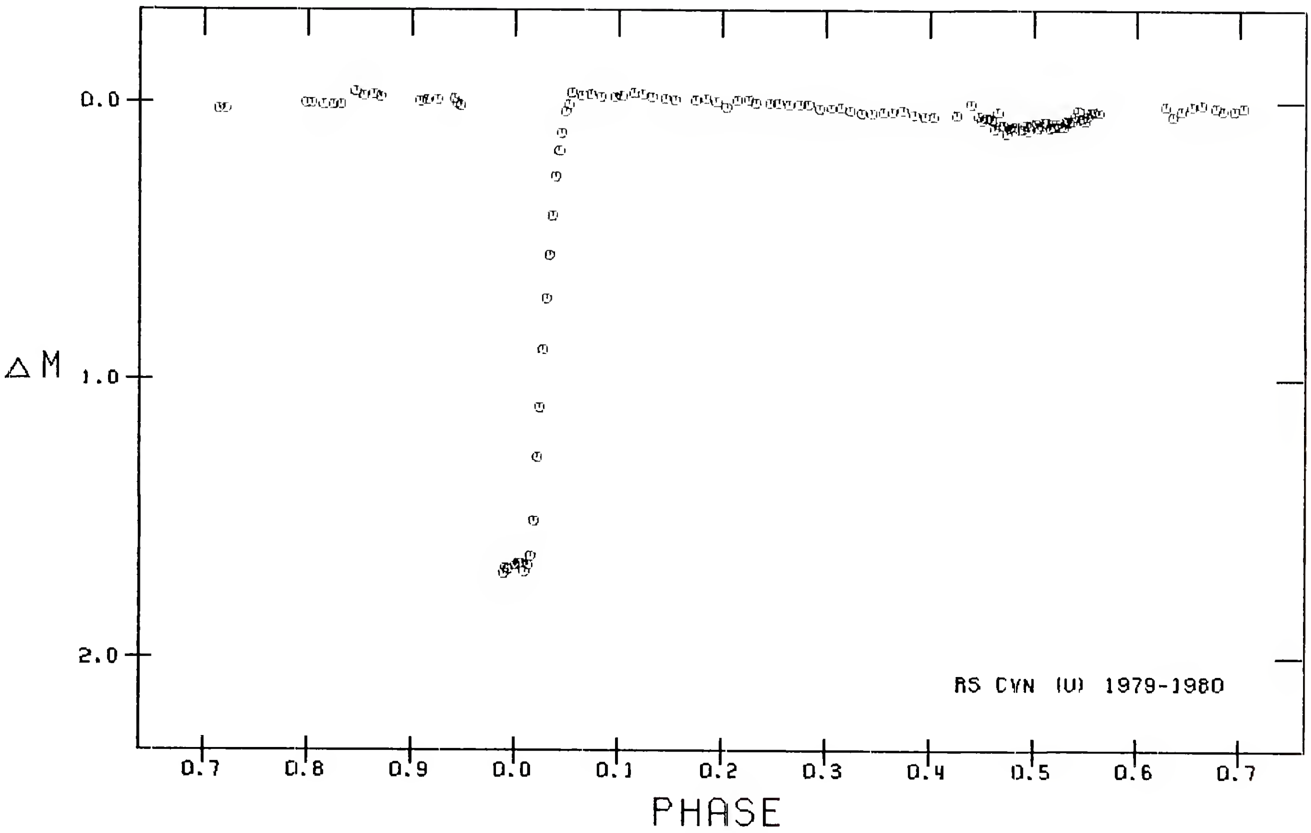


Fig. 38.-1979-1980 ultraviolet normal points for RS CVn.

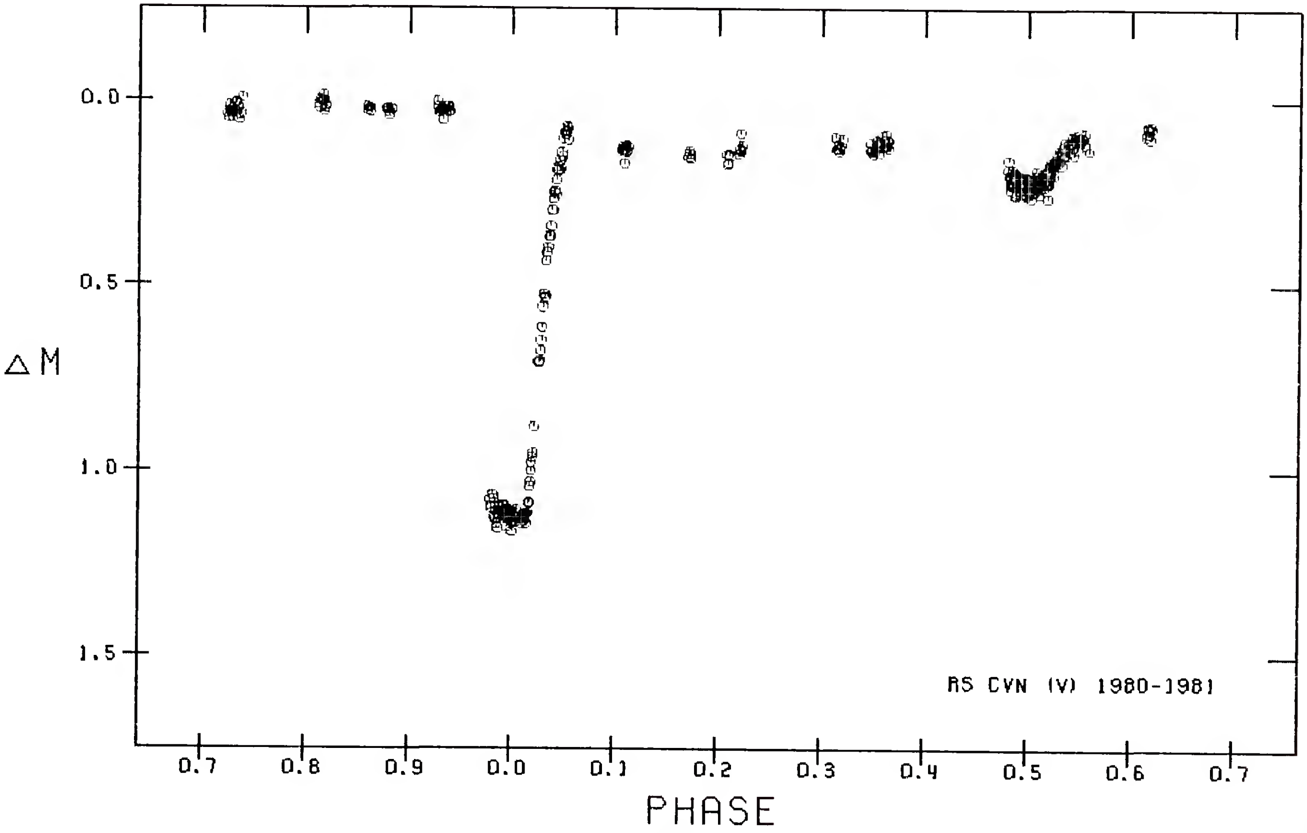
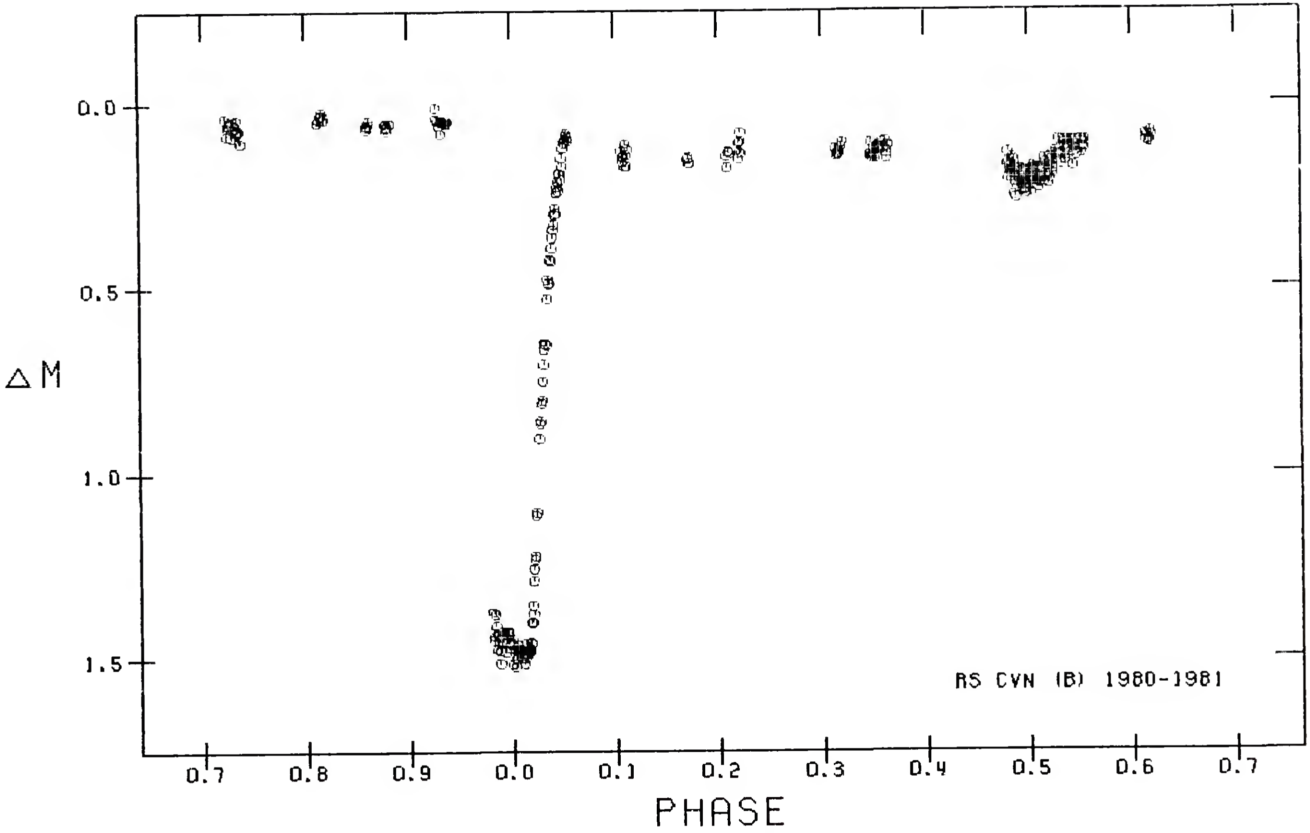


Fig. 39.-1980-1981 visual light curve for RS CVn.



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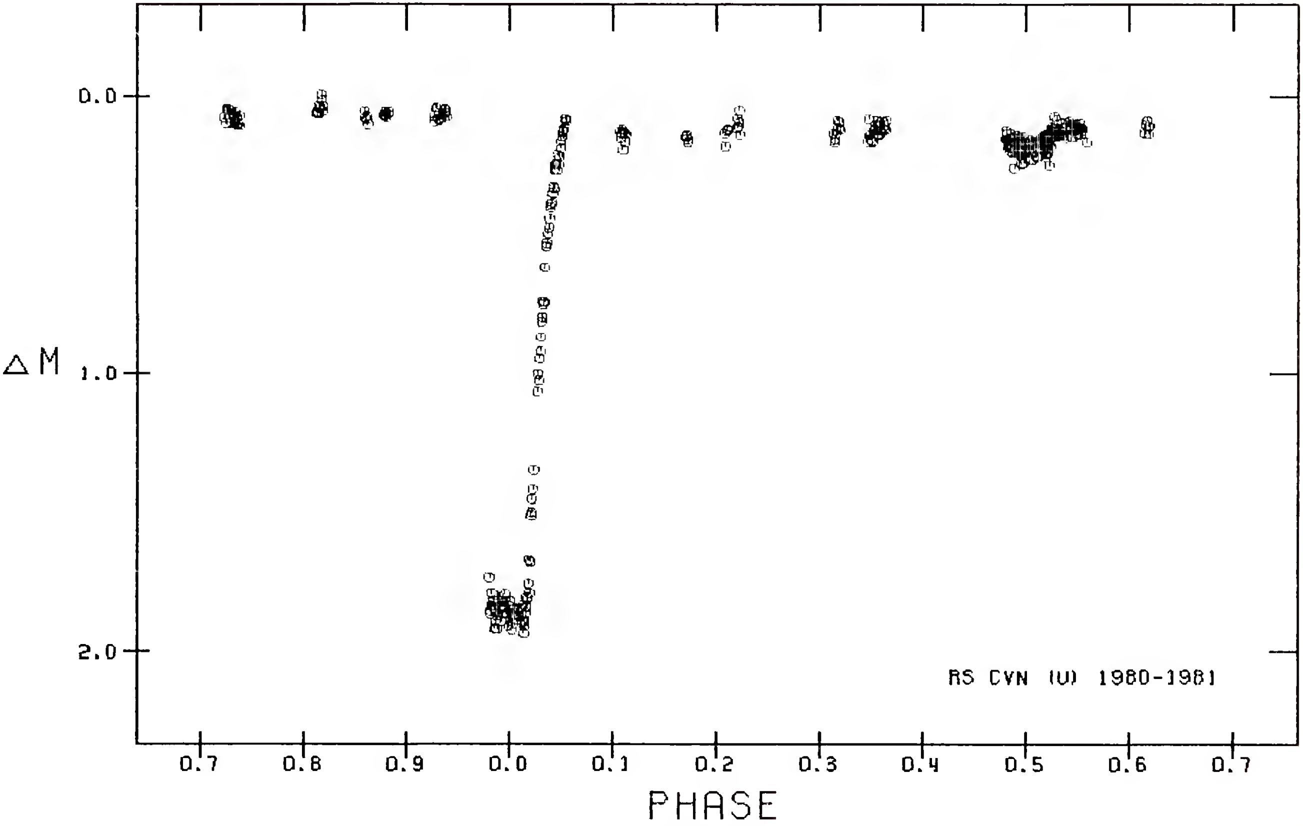

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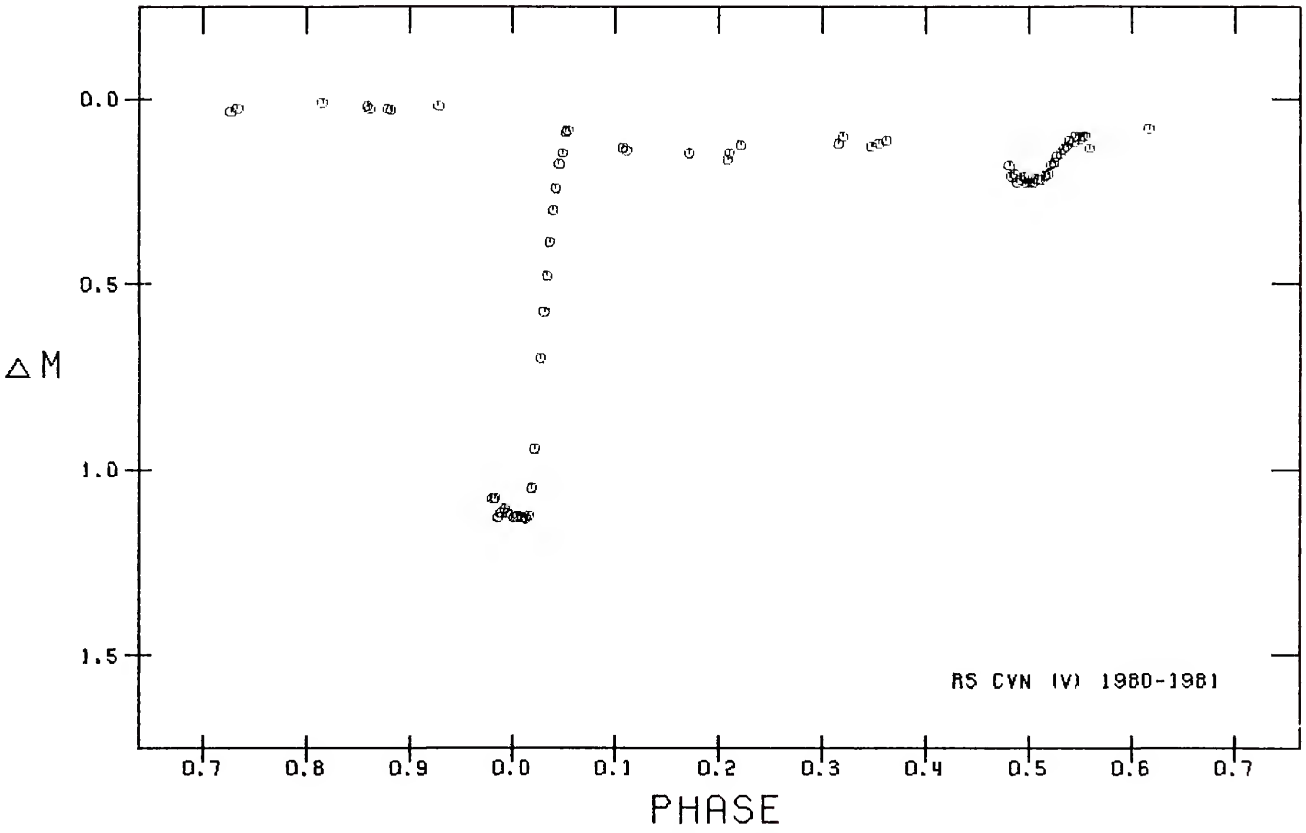
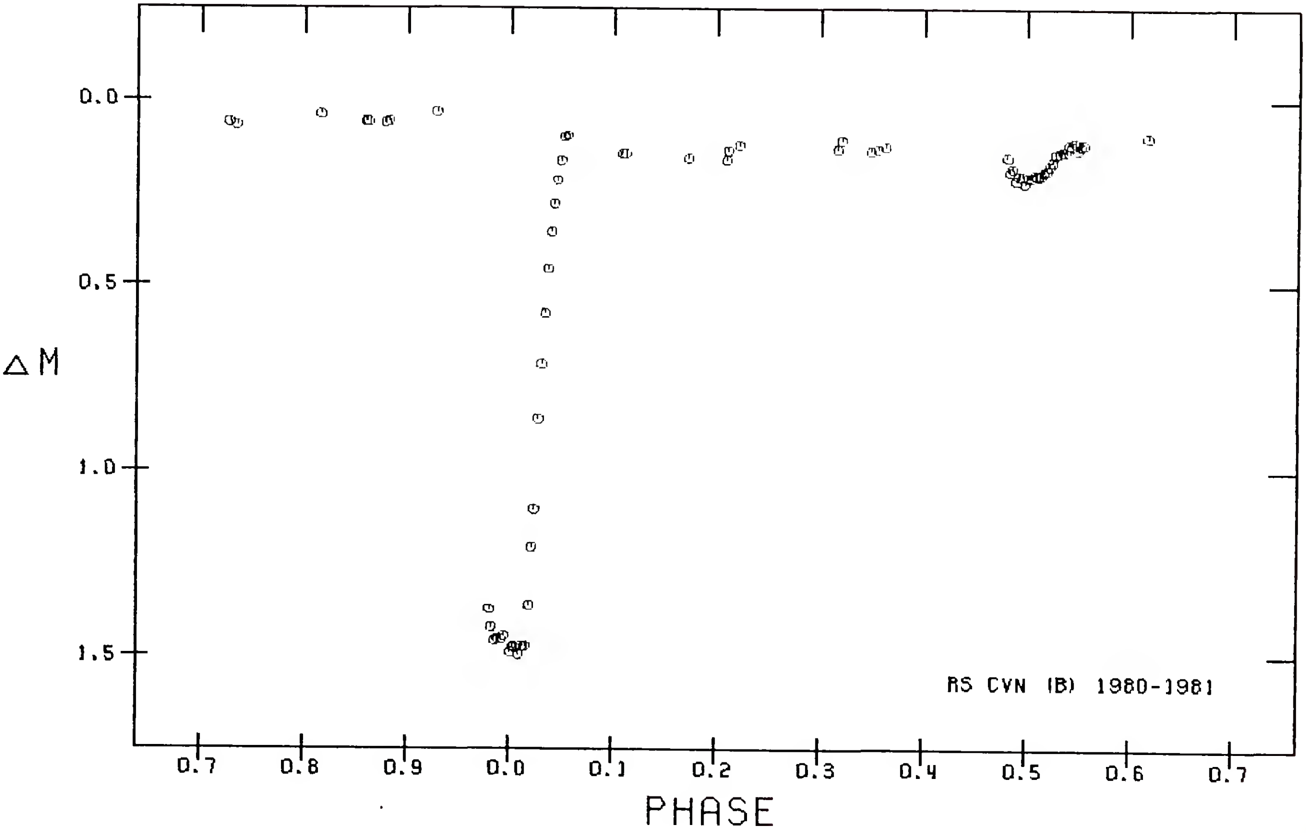


Fig. 42.-1980-1981 visual normal points for RS CVn.



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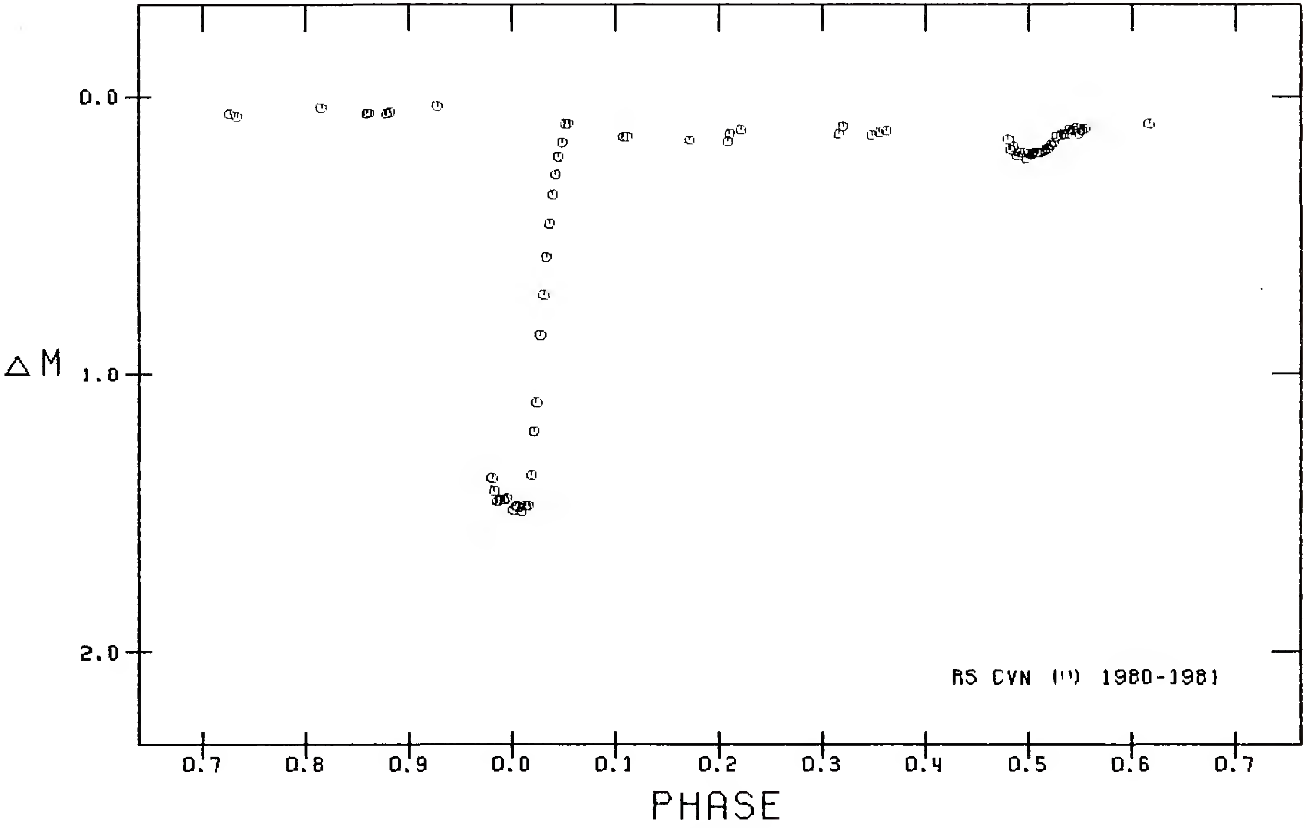

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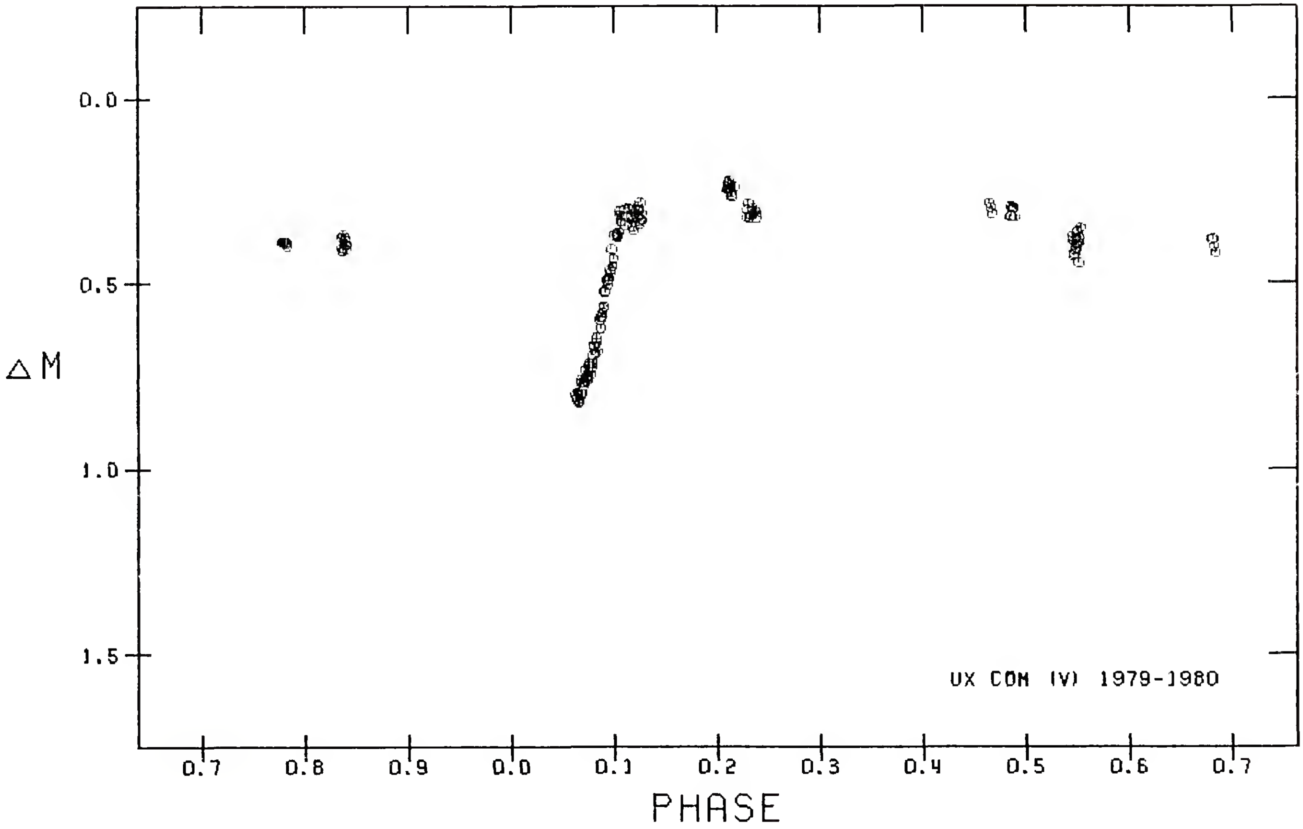
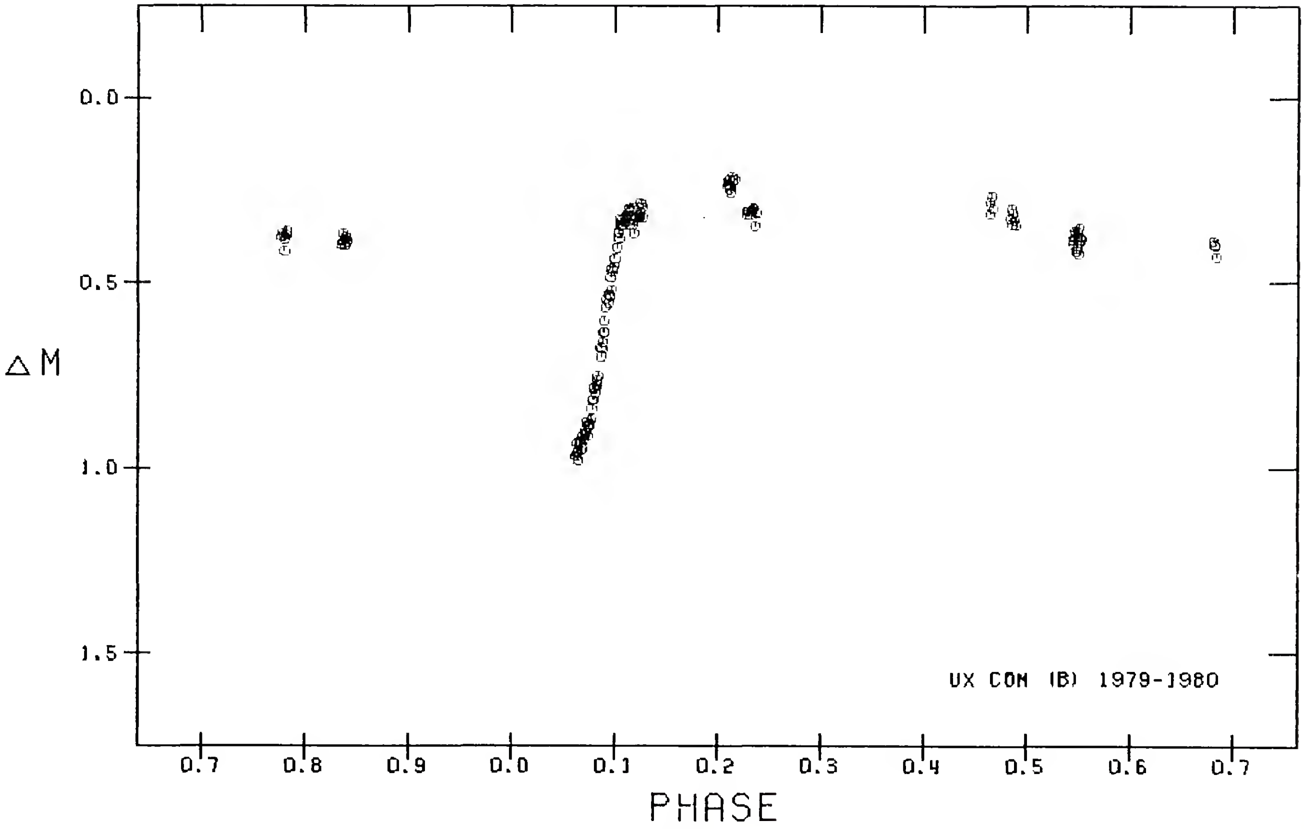


Fig. 45.-1979-1980 visual light curve for UX Com.



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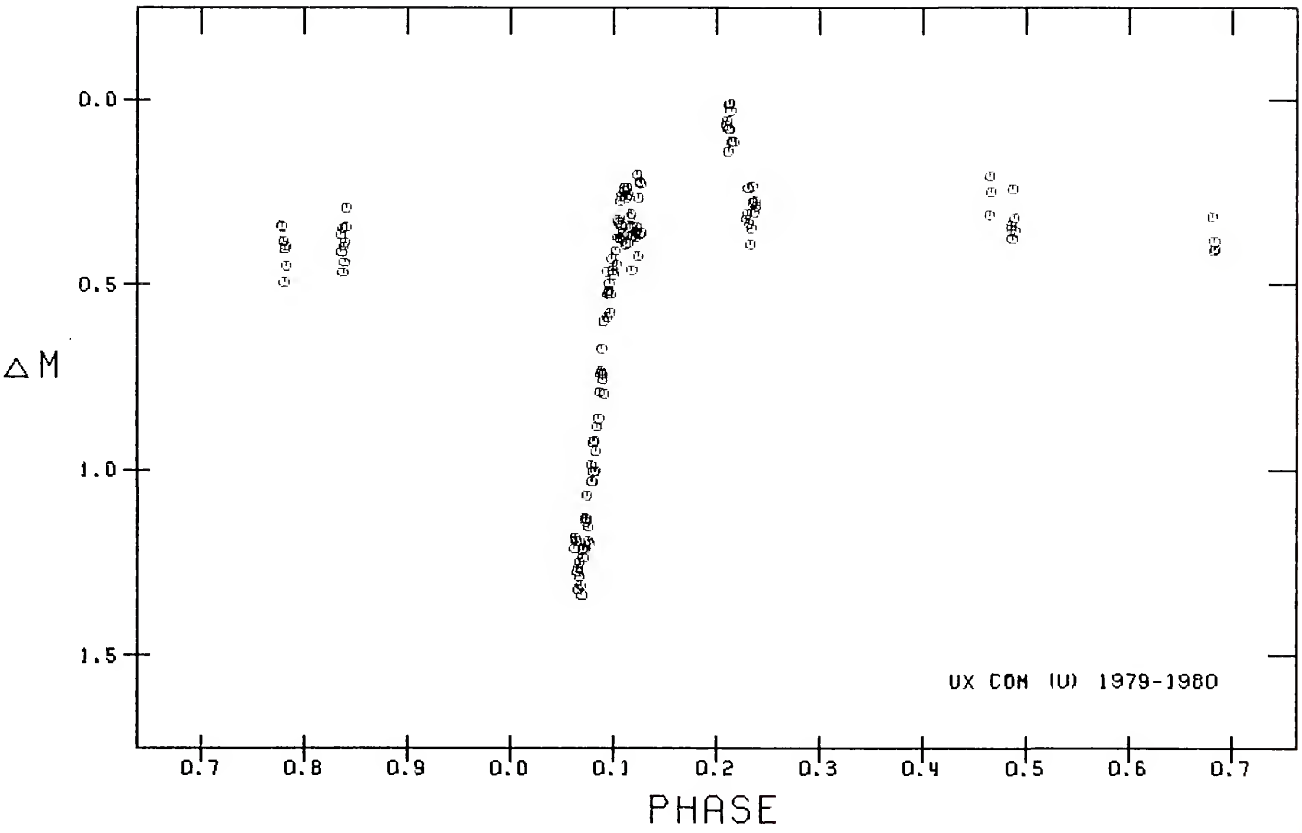


Fig. 47.—1979-1980 ultraviolet light curve for UX Com.

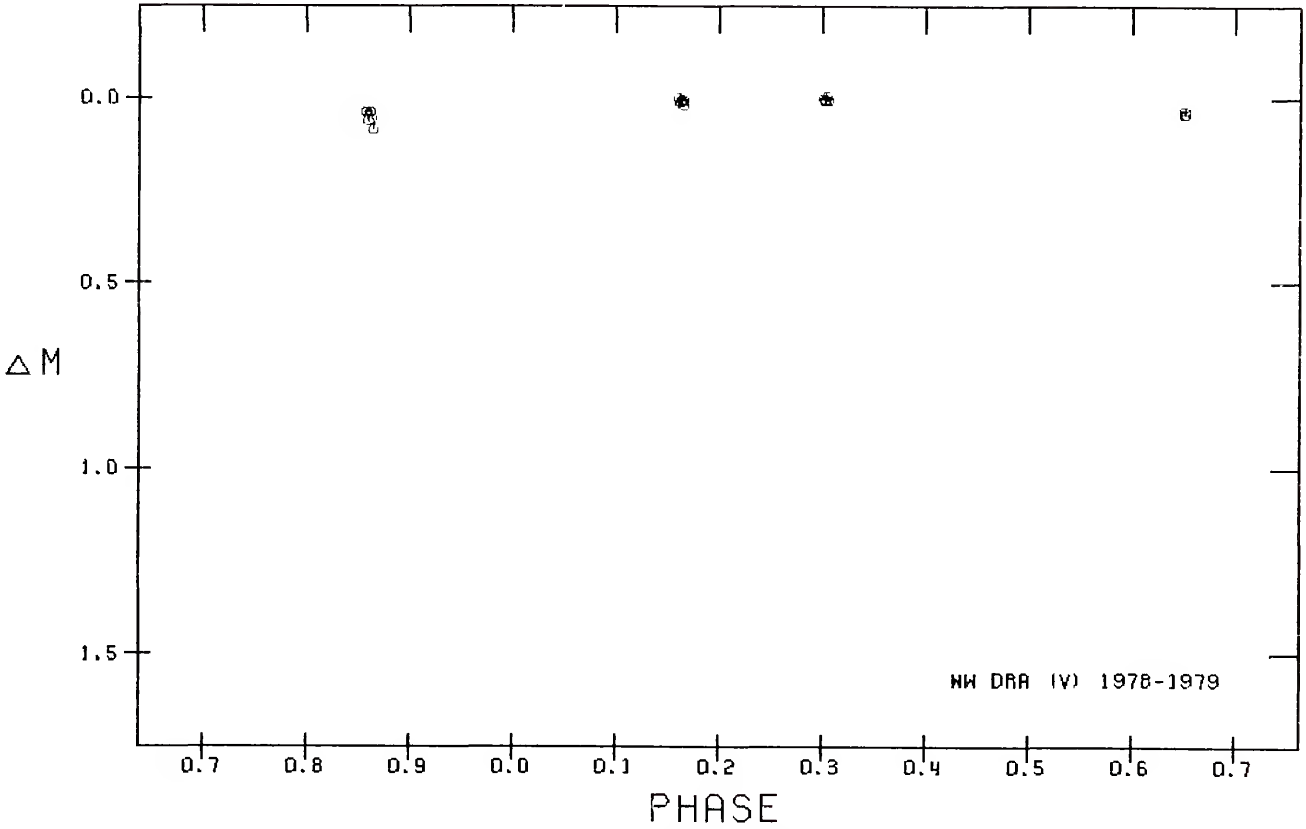


Fig. 48.-1978-1979 visual light curve for WW Dra.

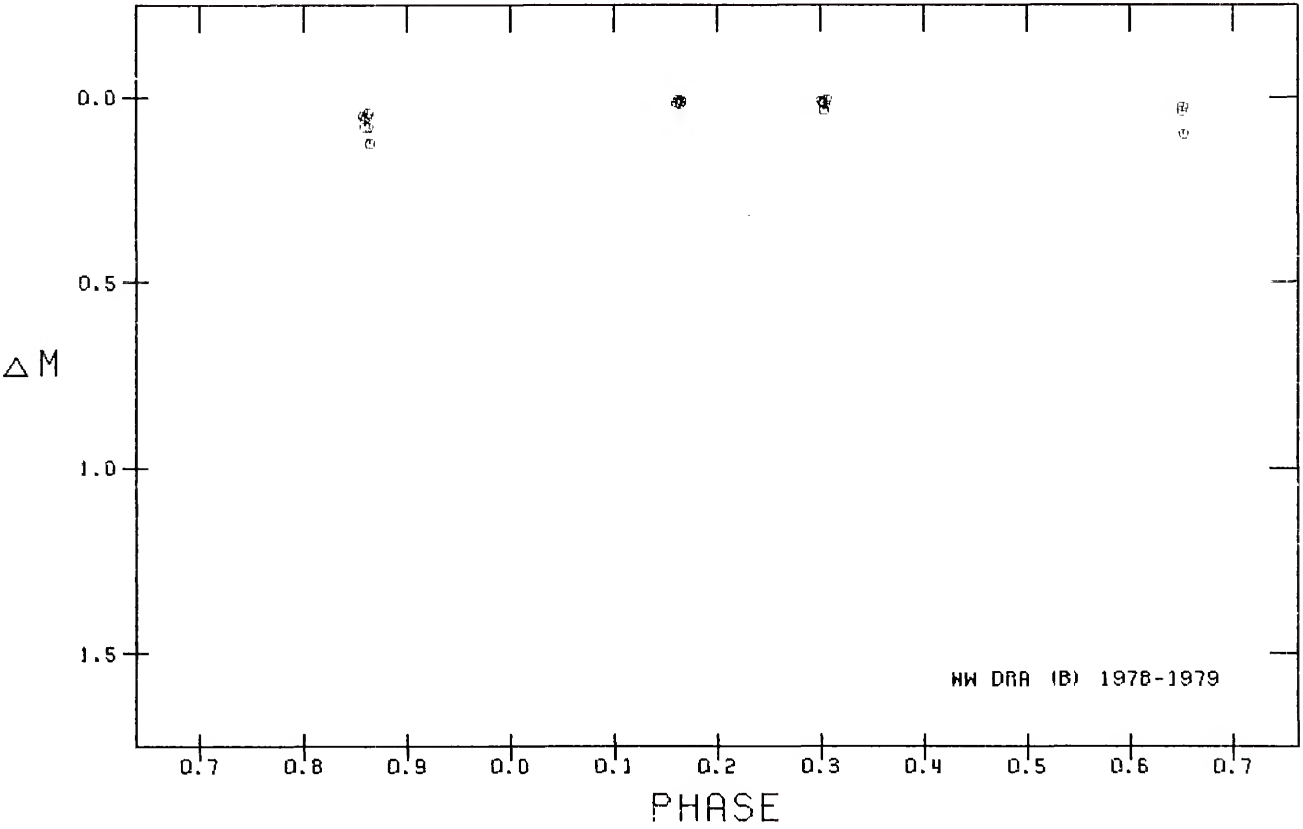
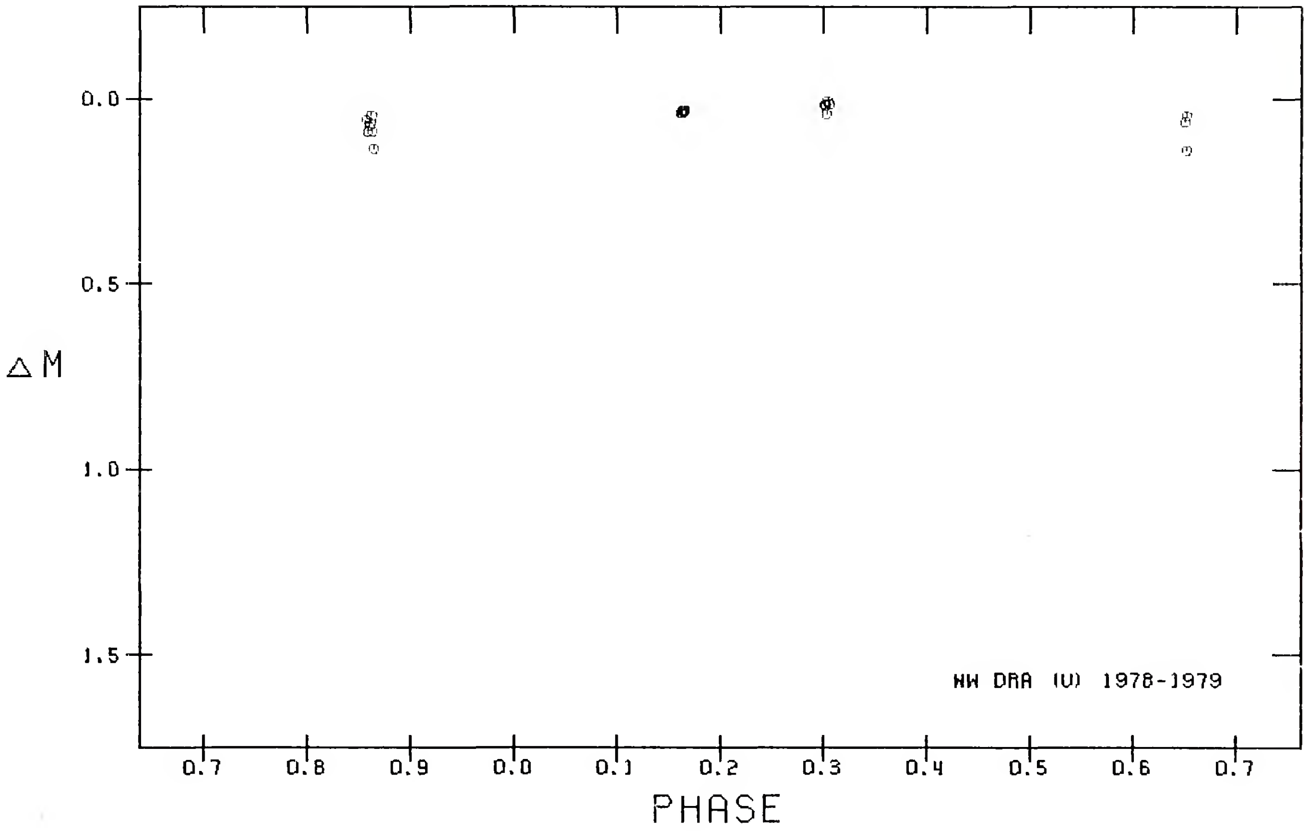


Fig. 49.-1978-1979 blue light curve for WW Dra.



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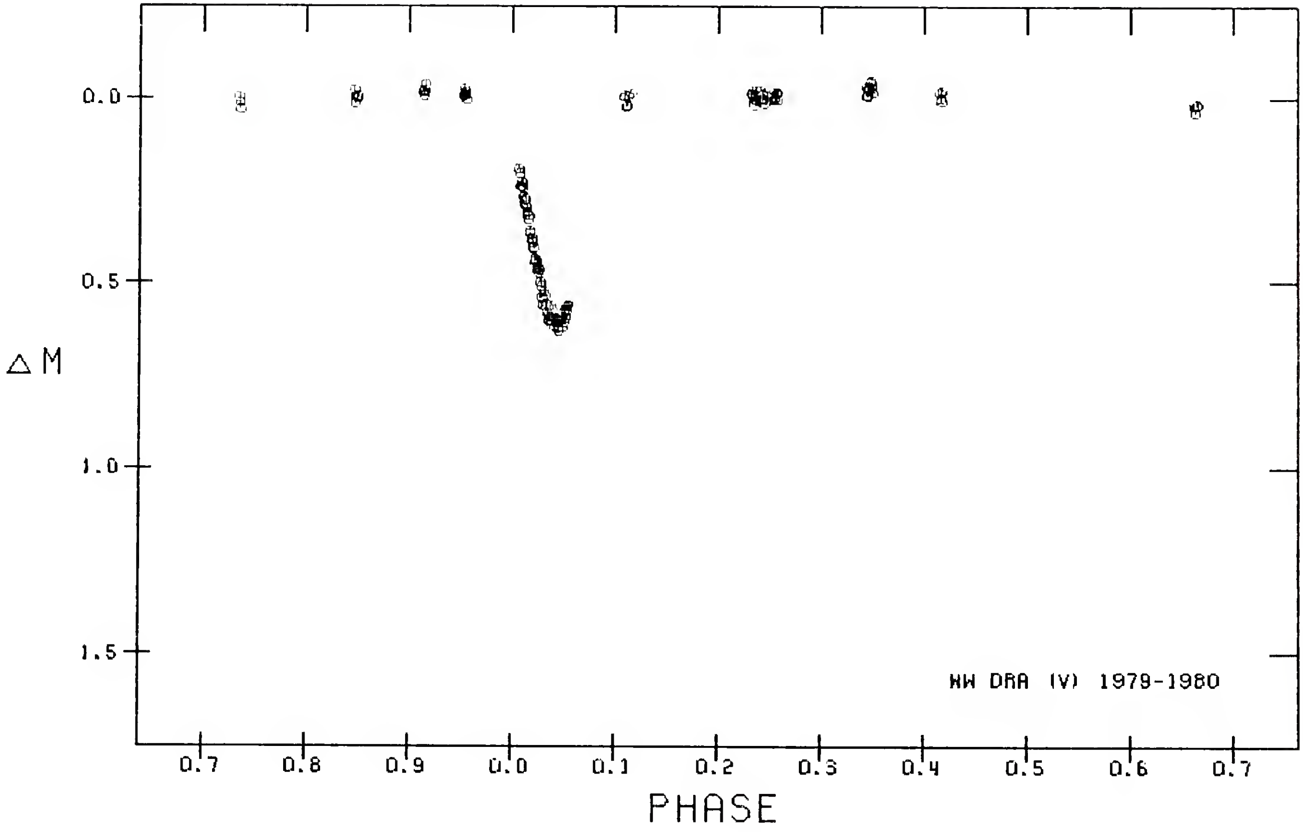

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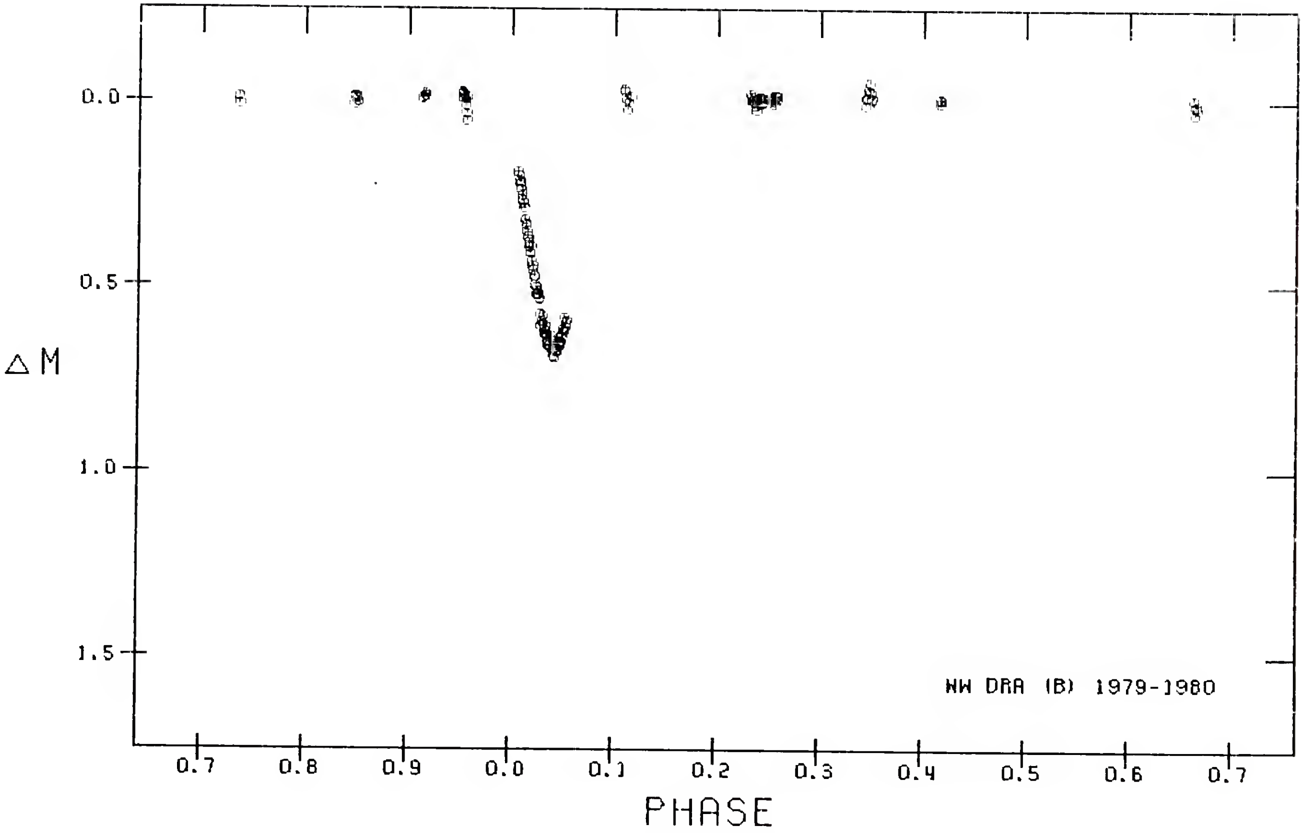

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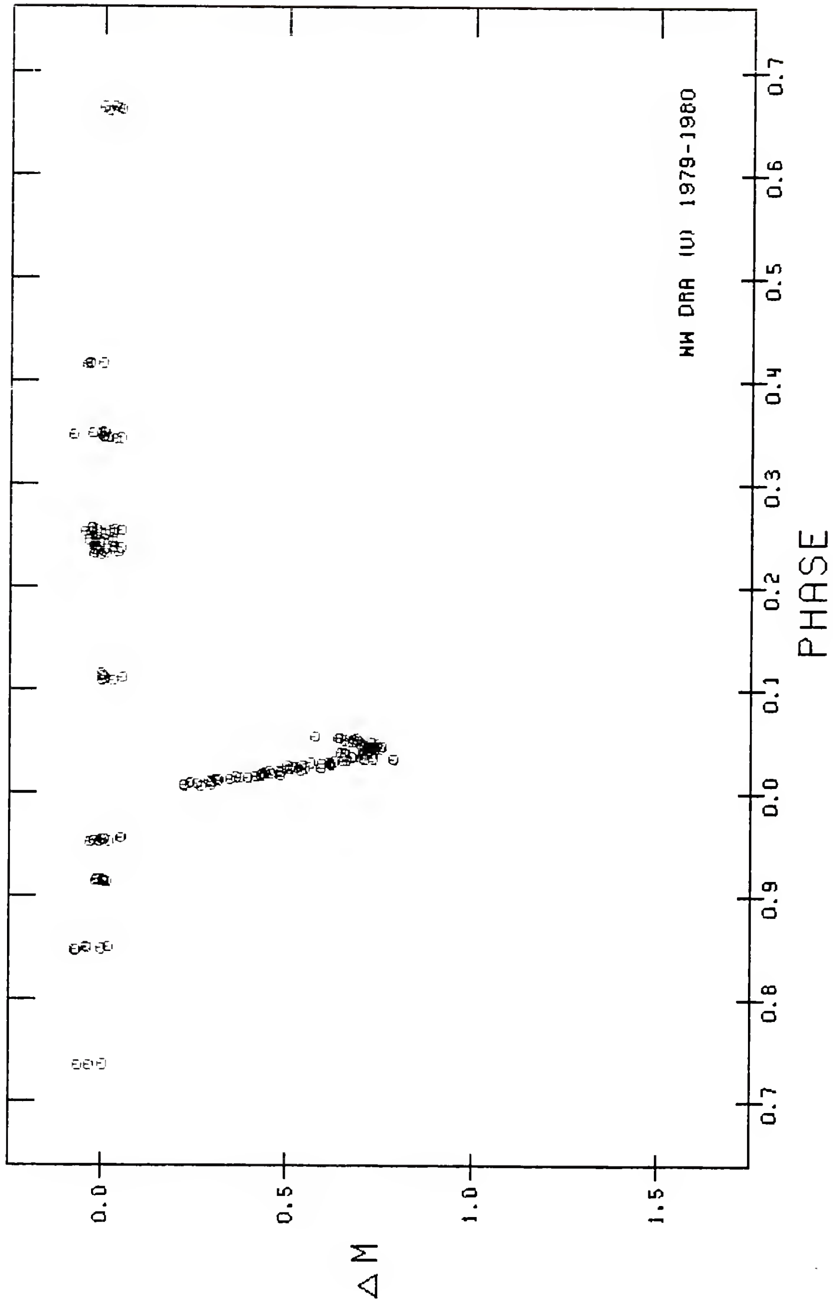

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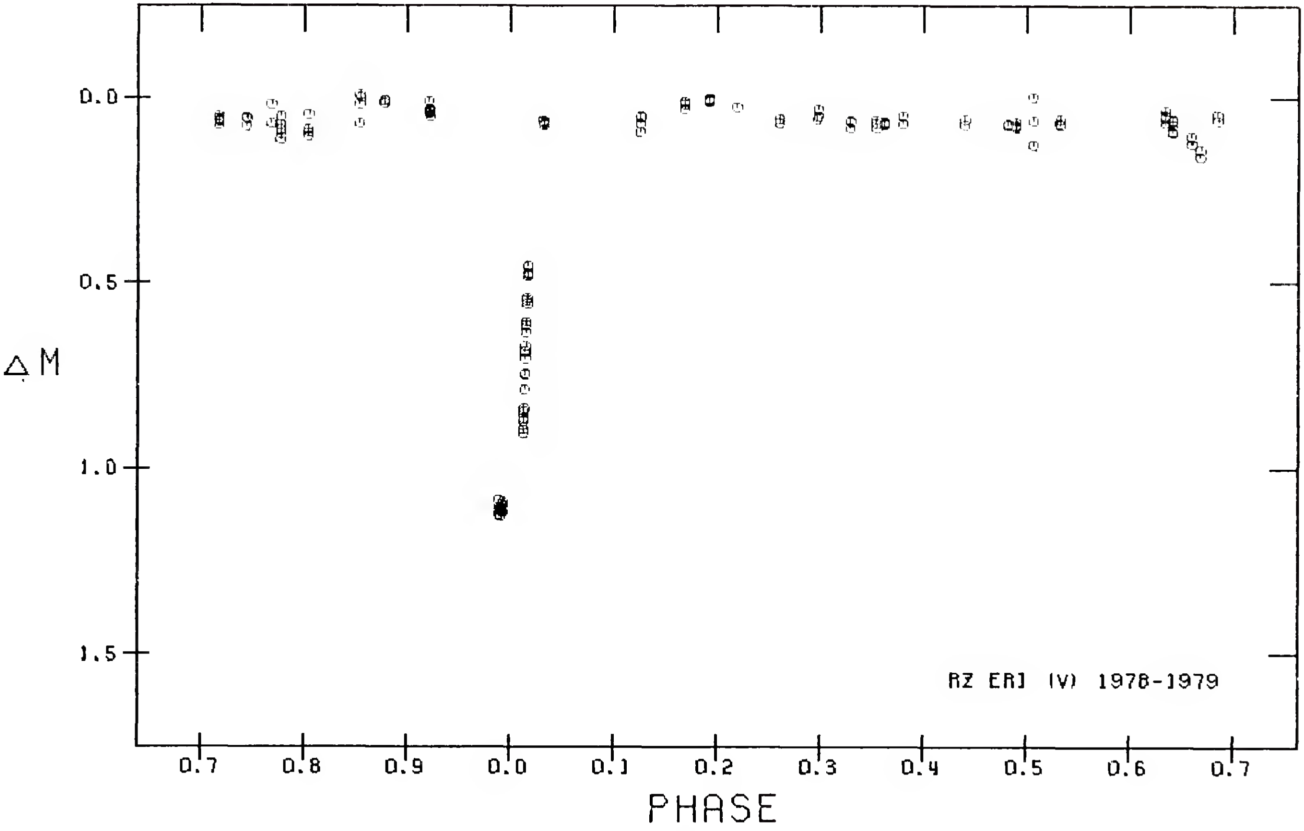
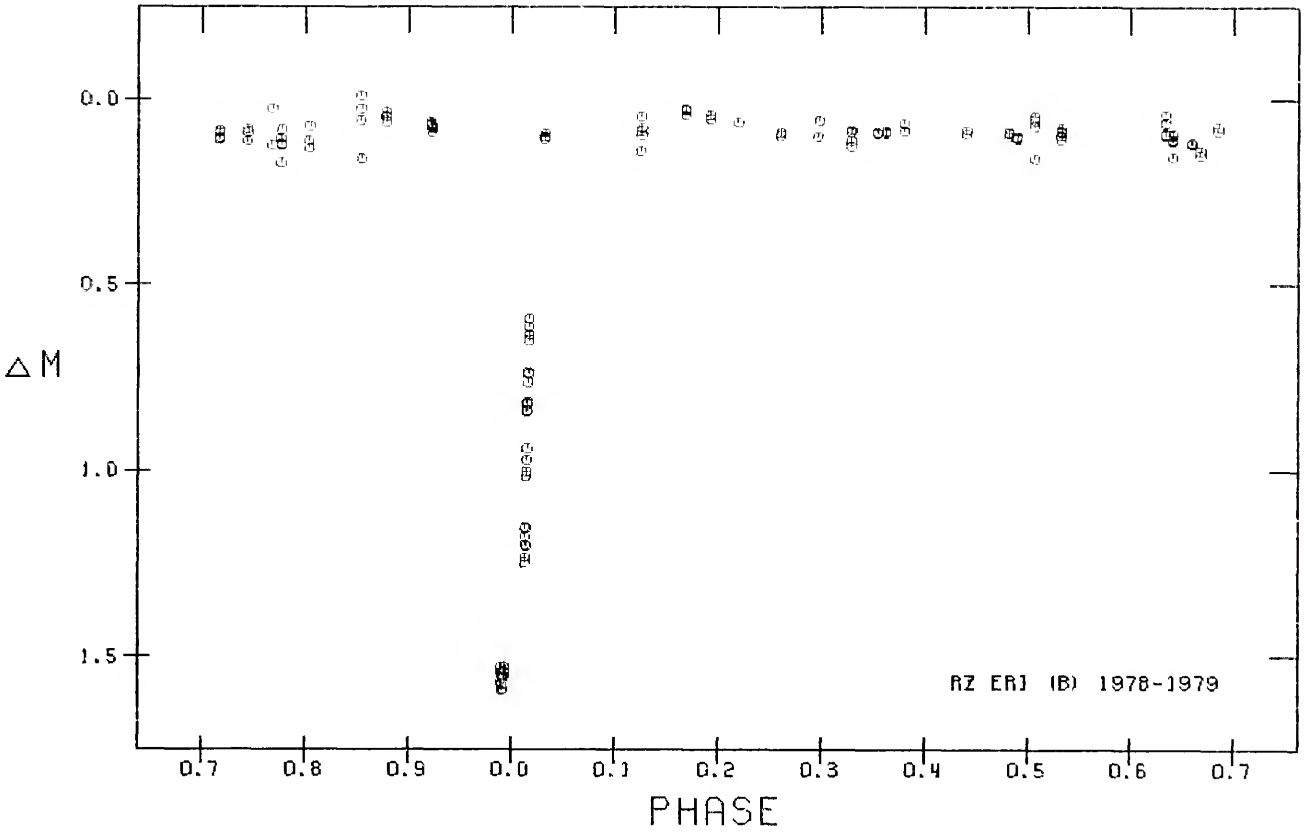


Fig. 54.—1978-1979 visual light curve for RZ Eri.



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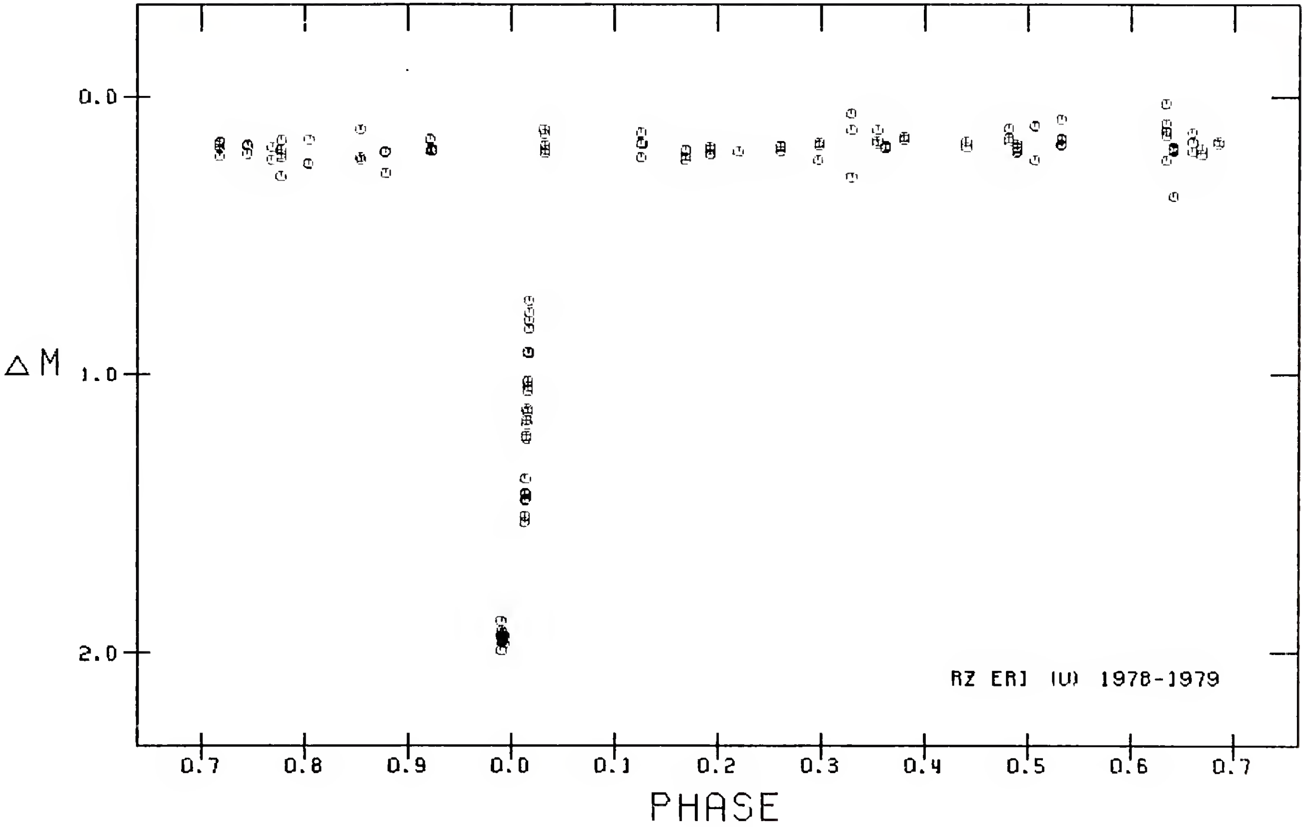

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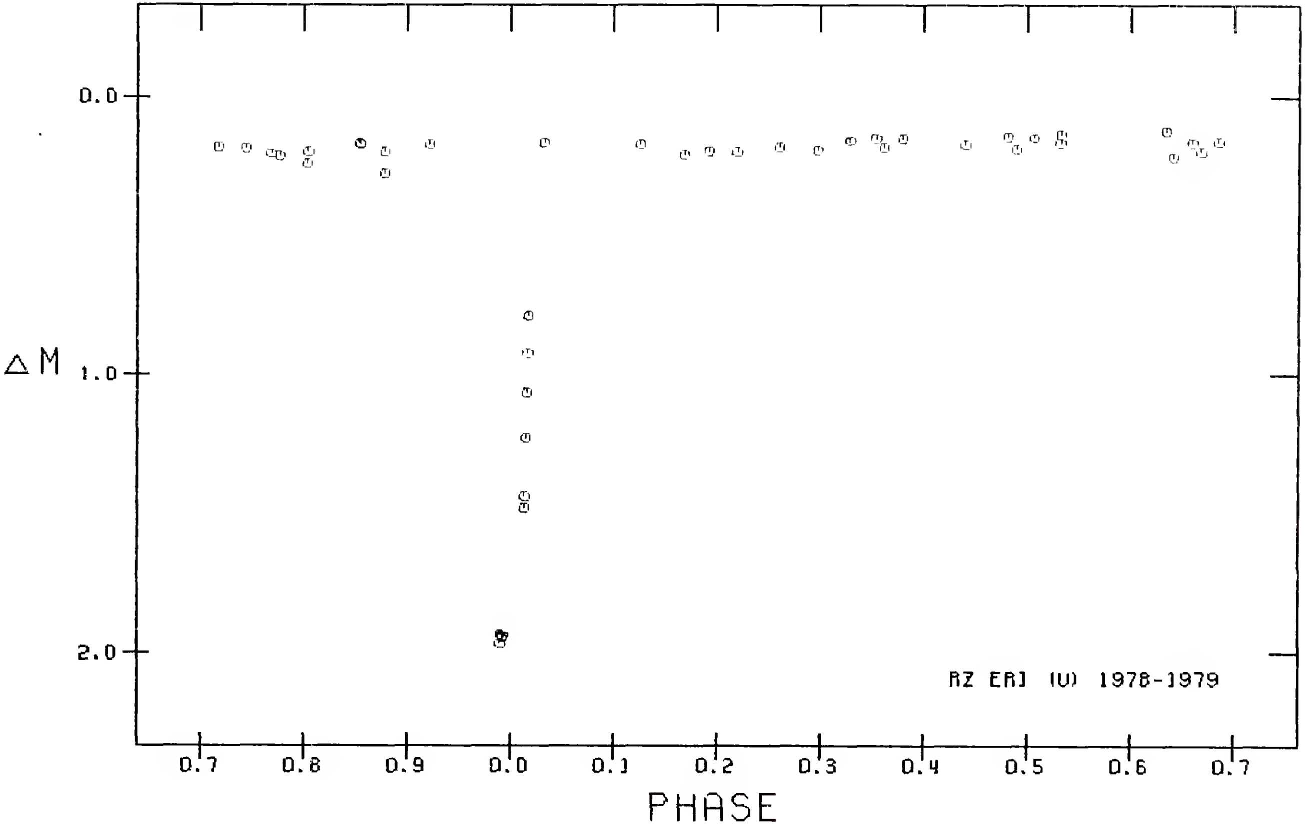
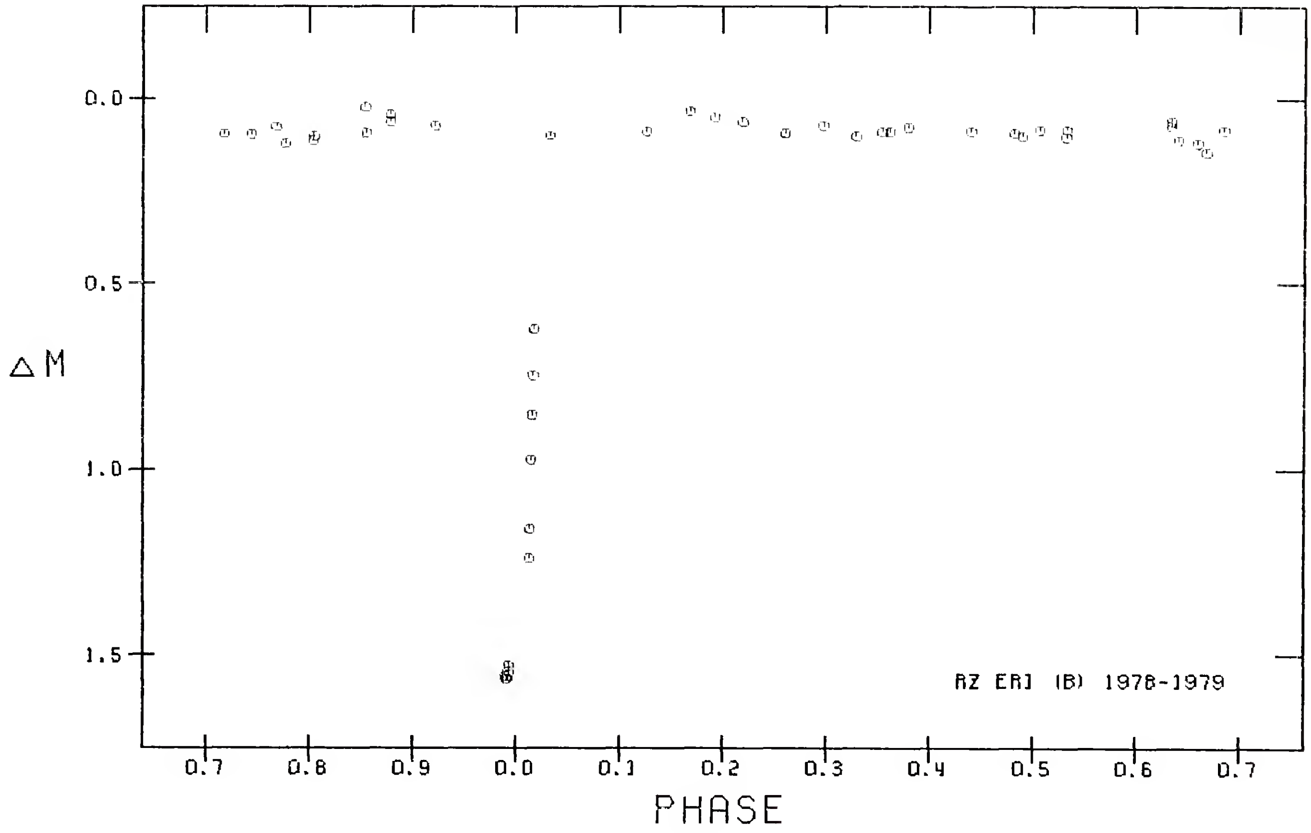


Fig. 57.-1978-1979 visual normal points for RZ Eri.



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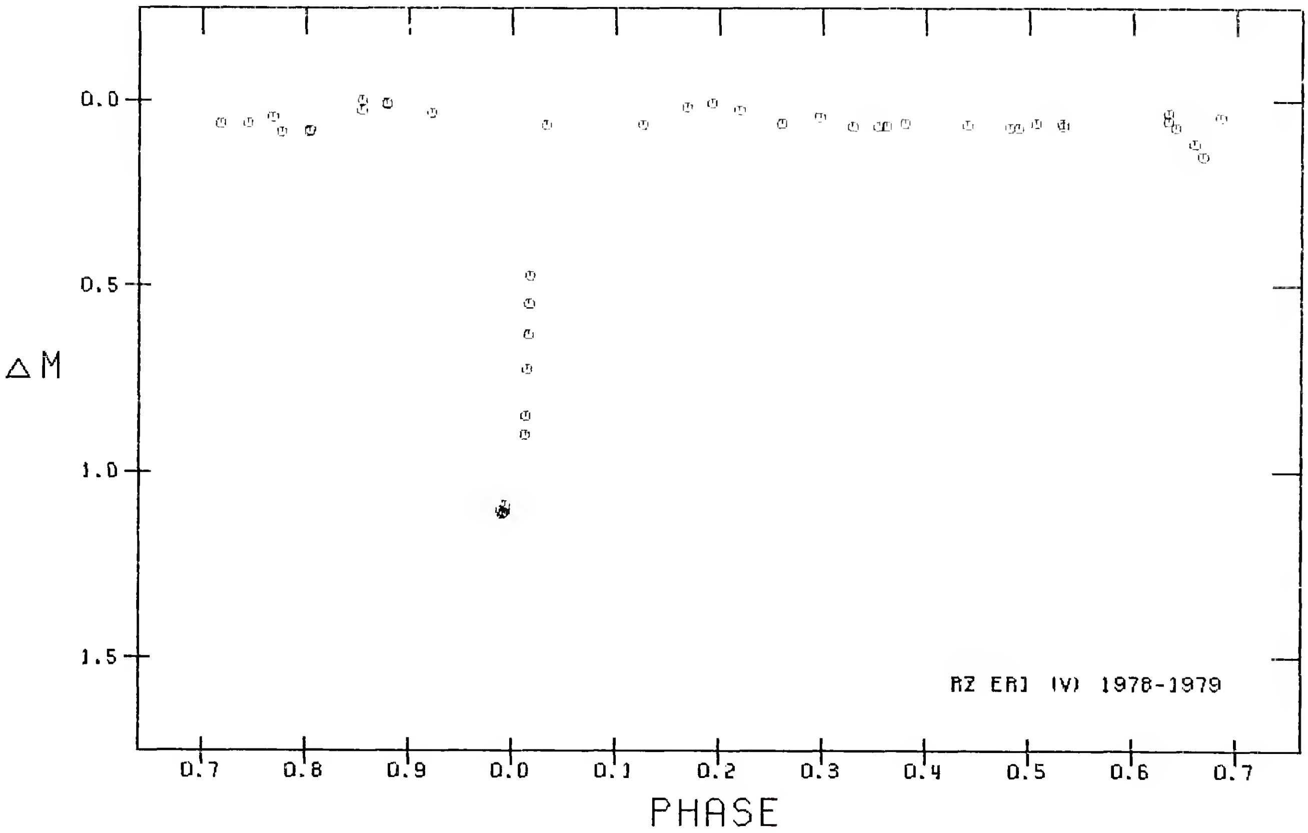

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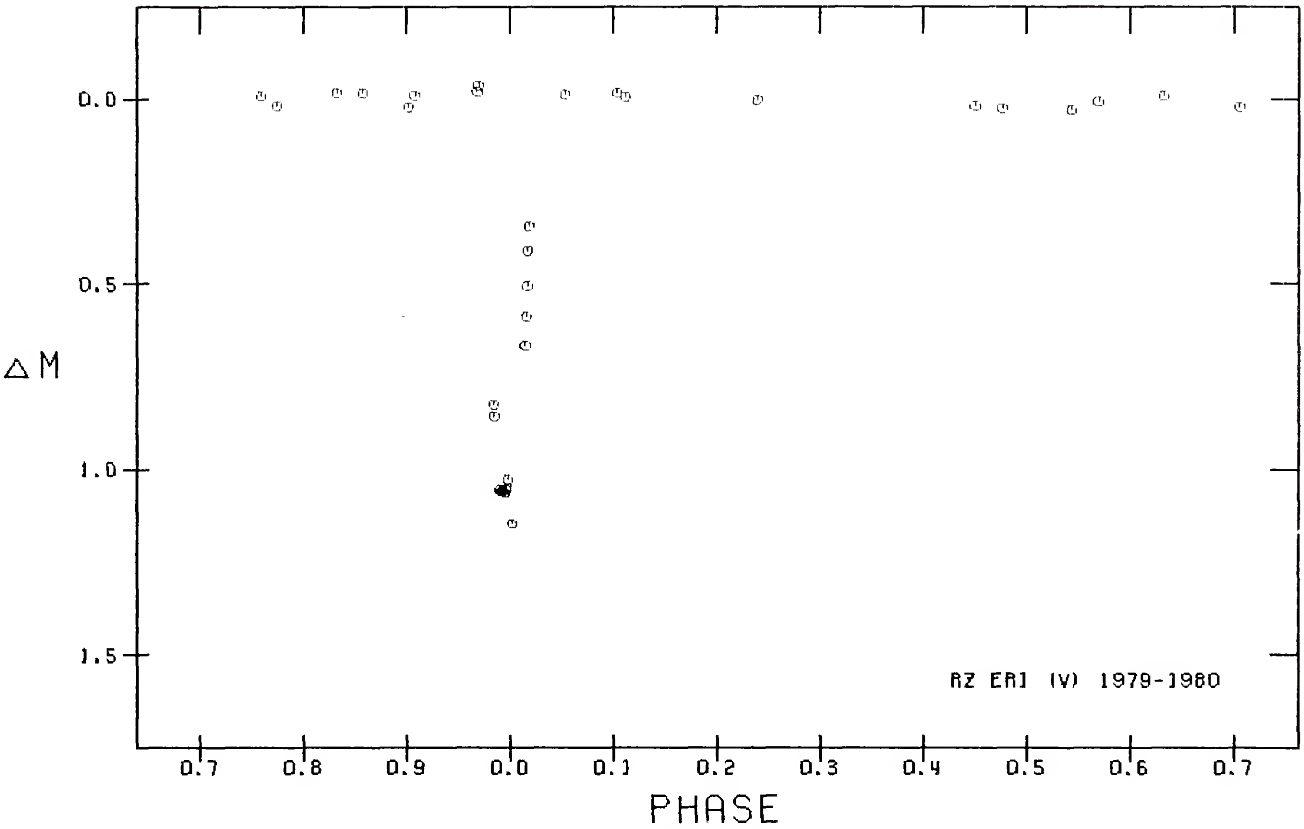

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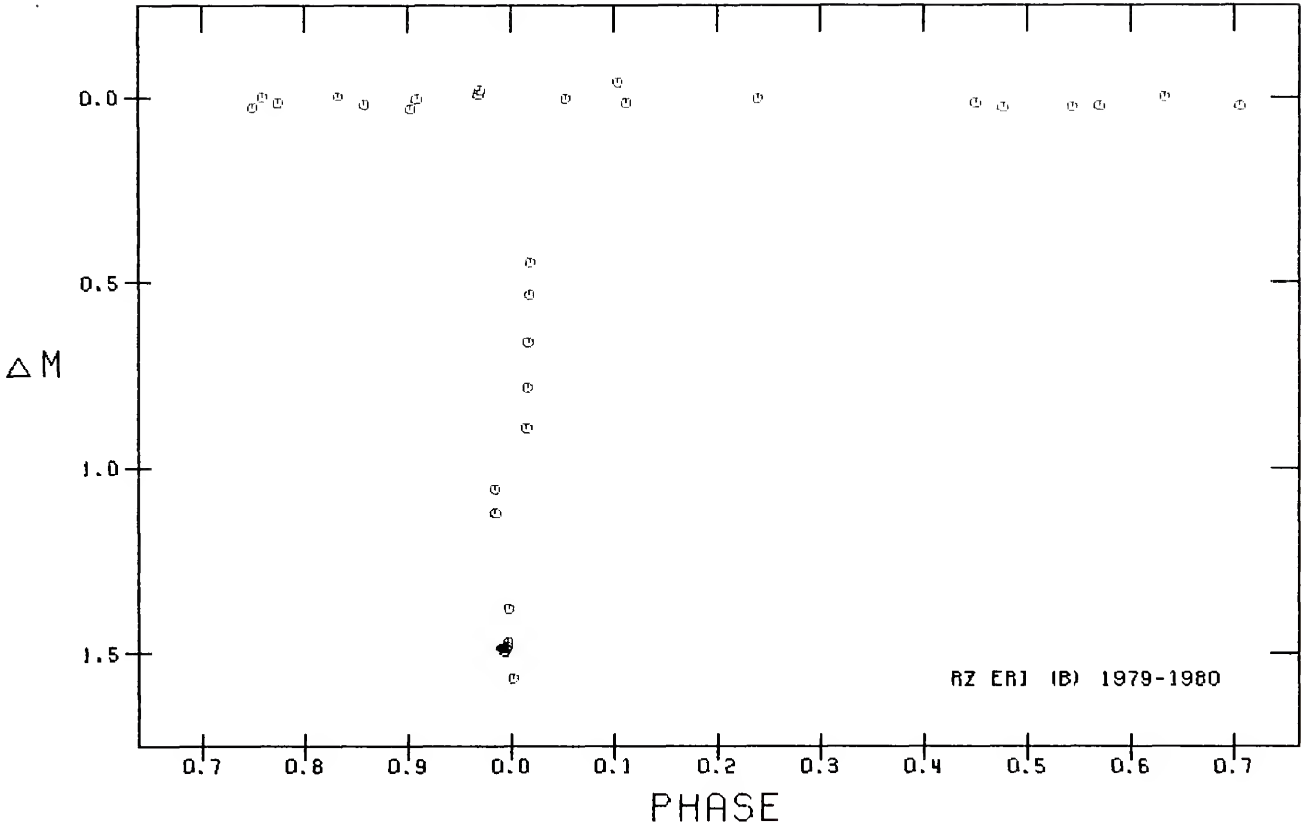

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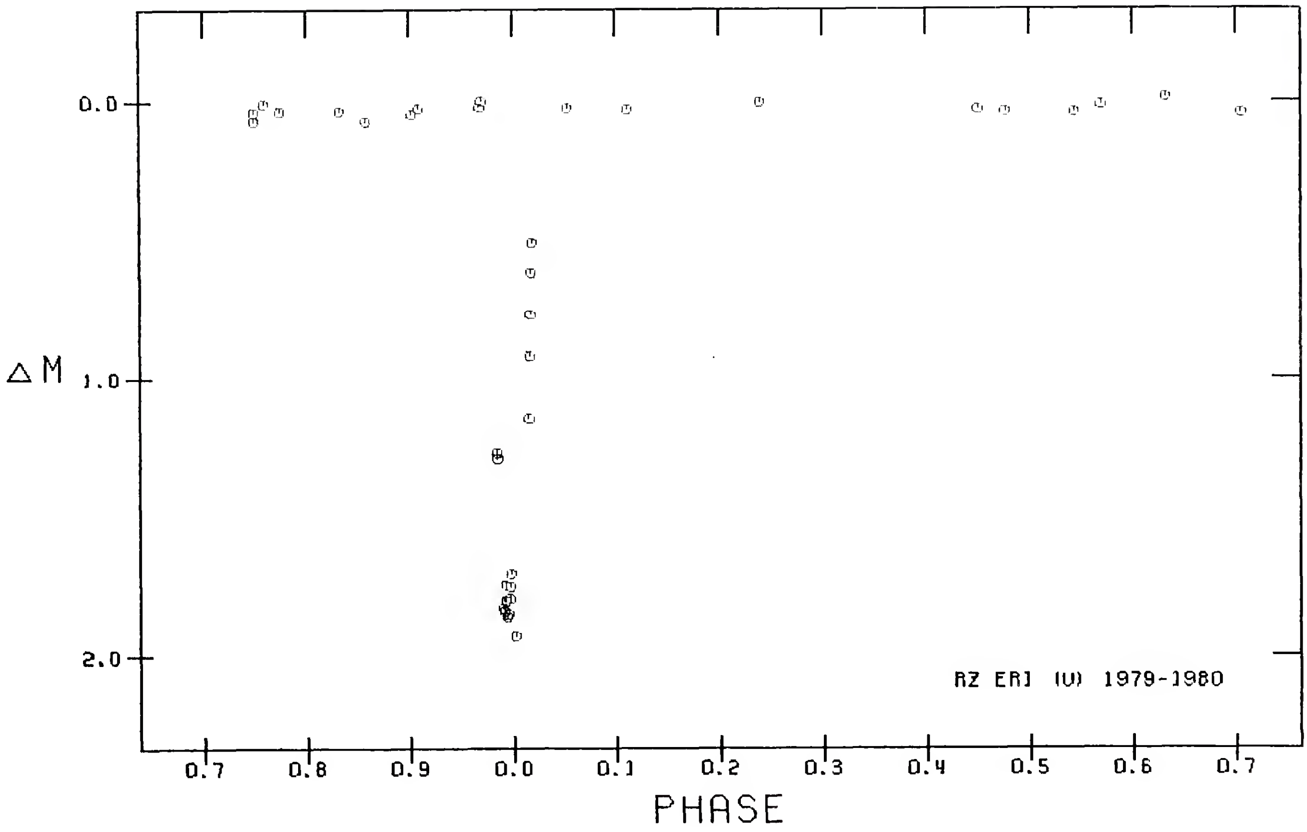


Fig. 62.--1979-1980 ultraviolet normal points for RZ Eri.

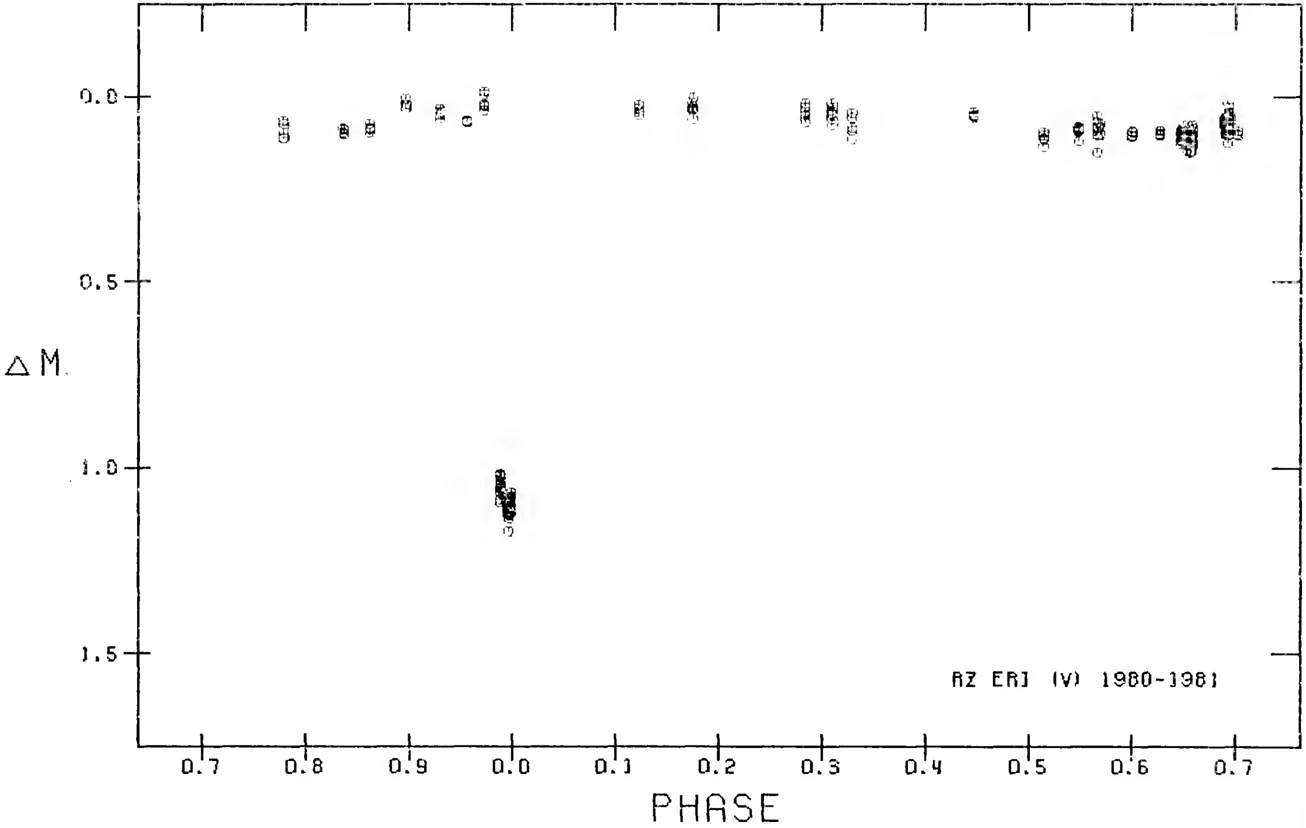
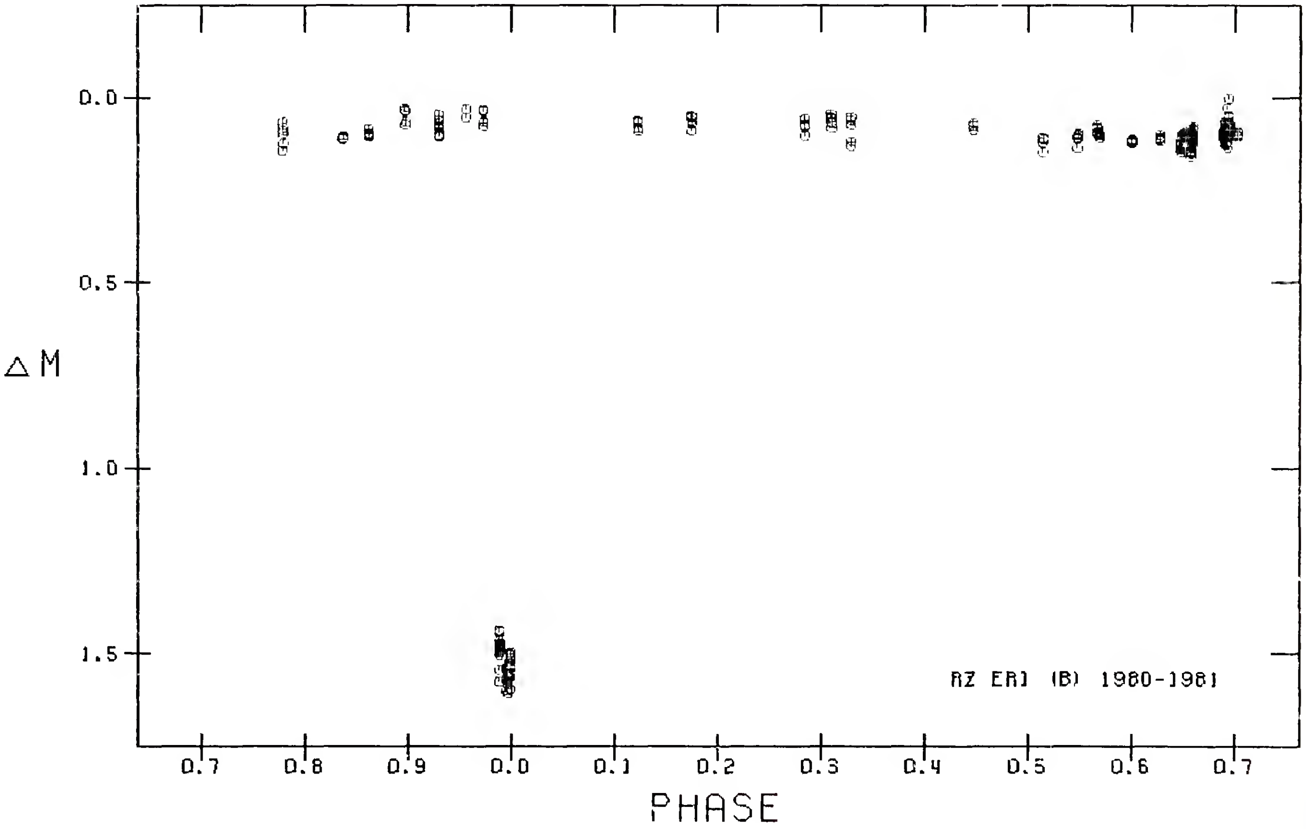


Fig. 63.-1980-1981 visual light curve for RZ Eri.



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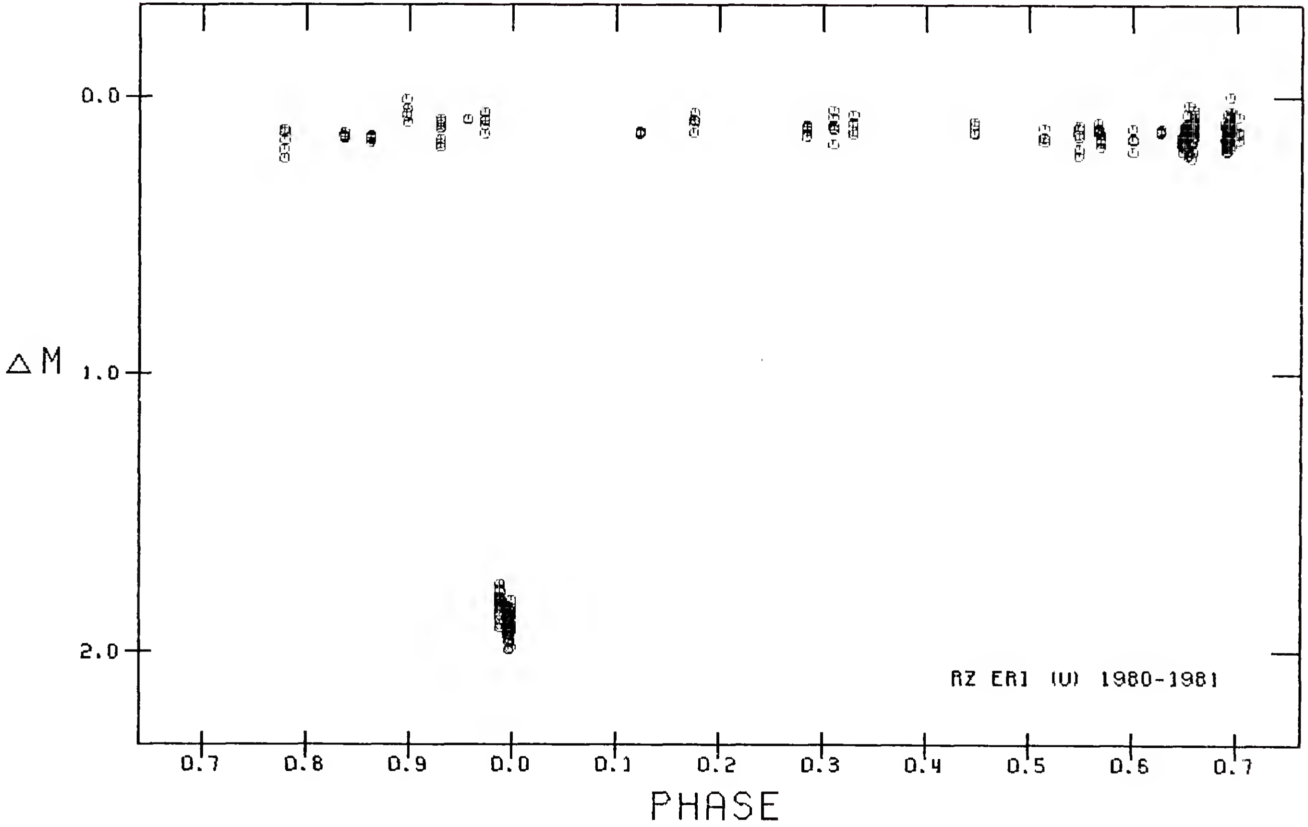

Fig. 65.-1980-1981 ultraviolet light curve for RZ Eri.

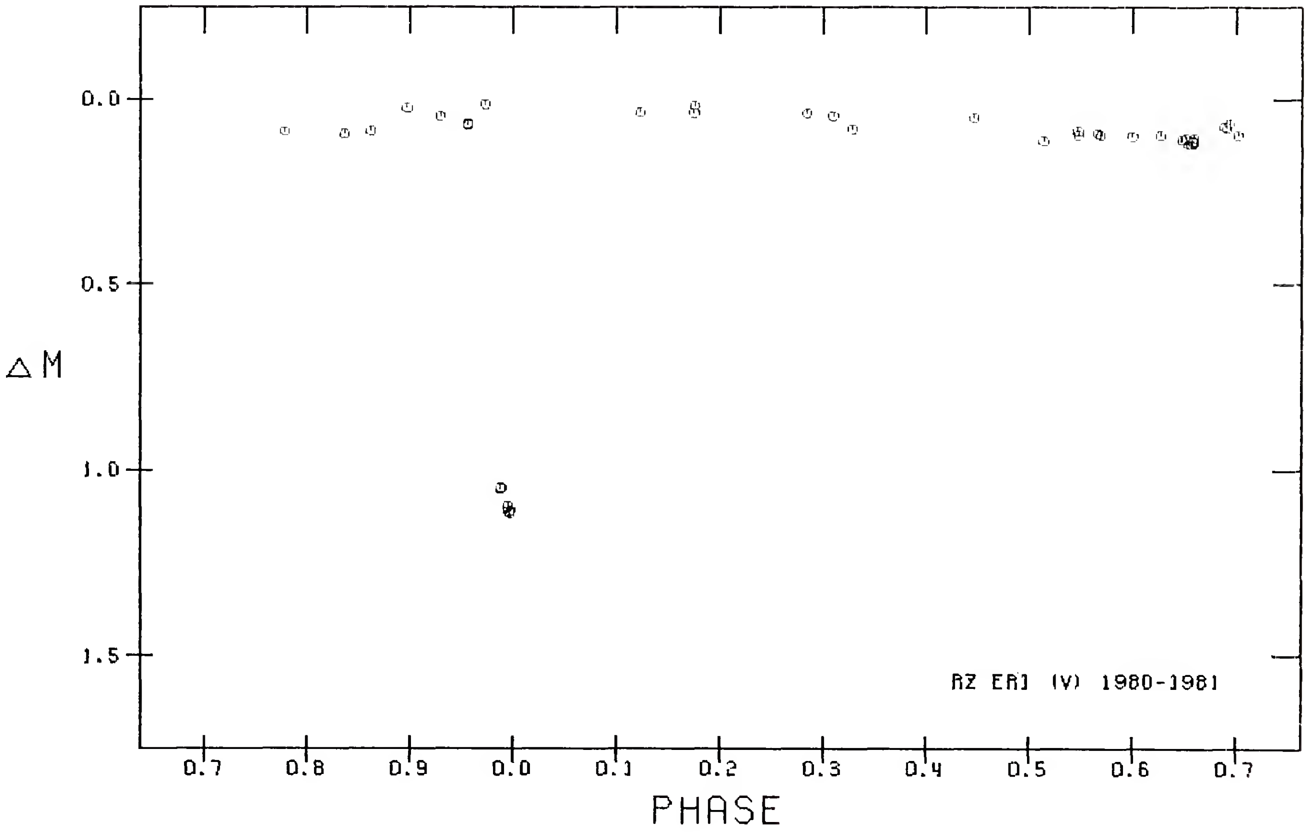

Fig. 66.-1980-1981 visual normal points for RZ Eri.

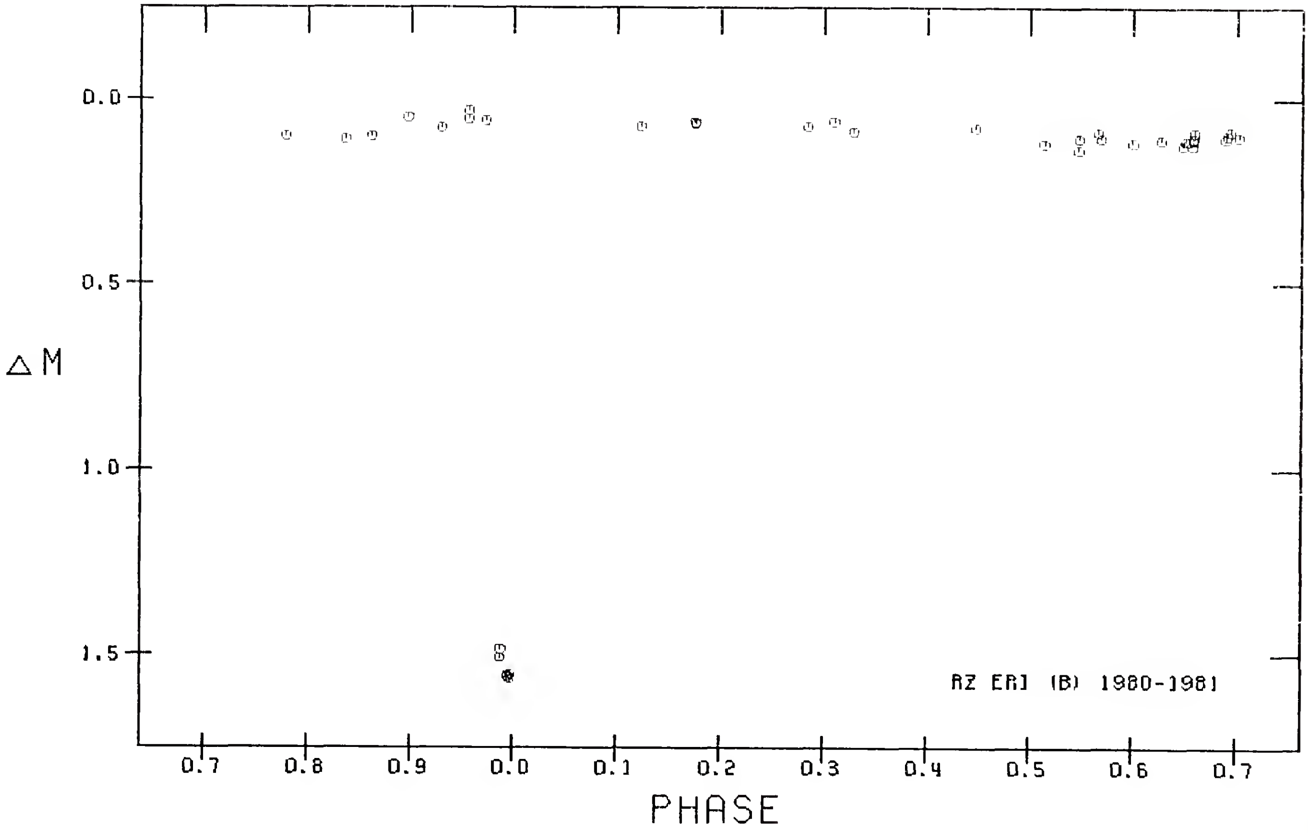

Fig. 67.—1980-1981 blue normal points for RZ Eri.

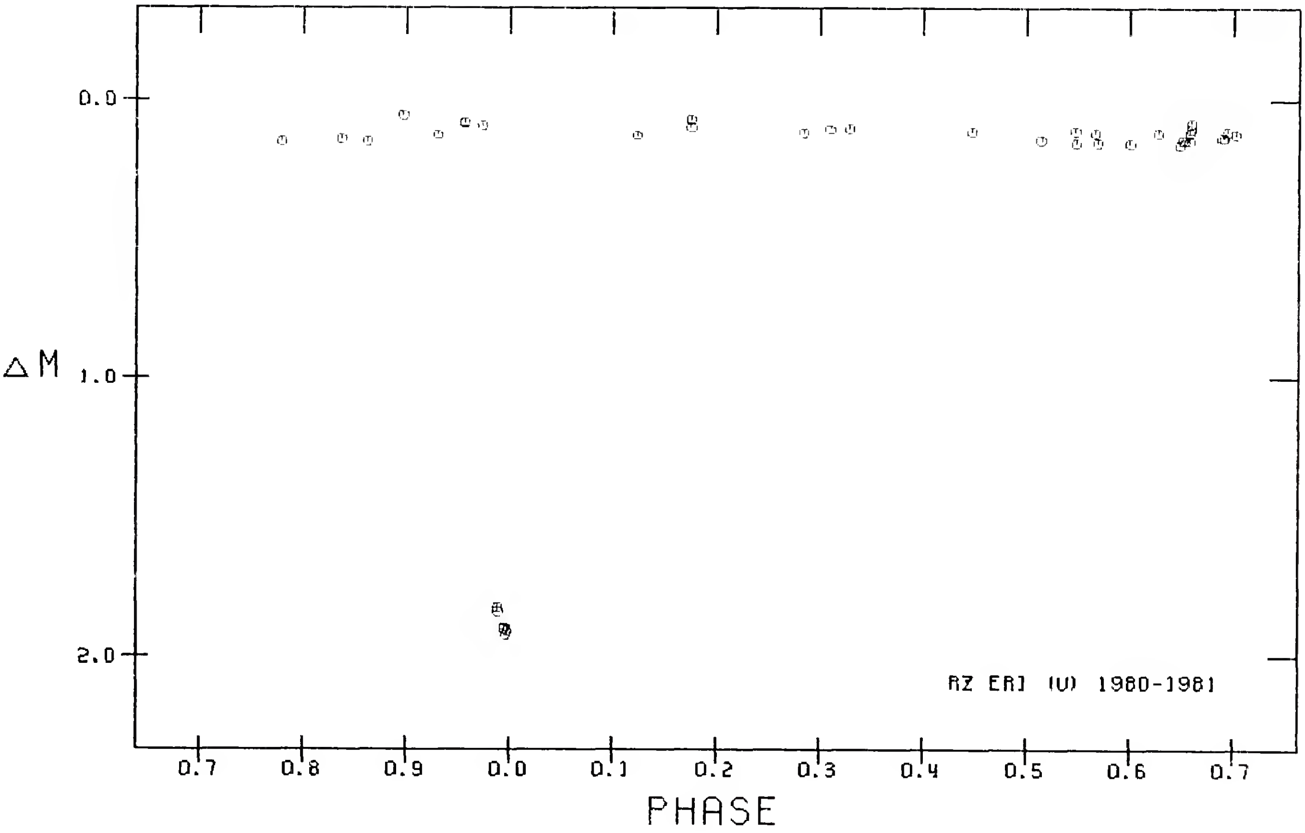

Fig. 68.-1980-1981 ultraviolet normal points for RZ Eri.

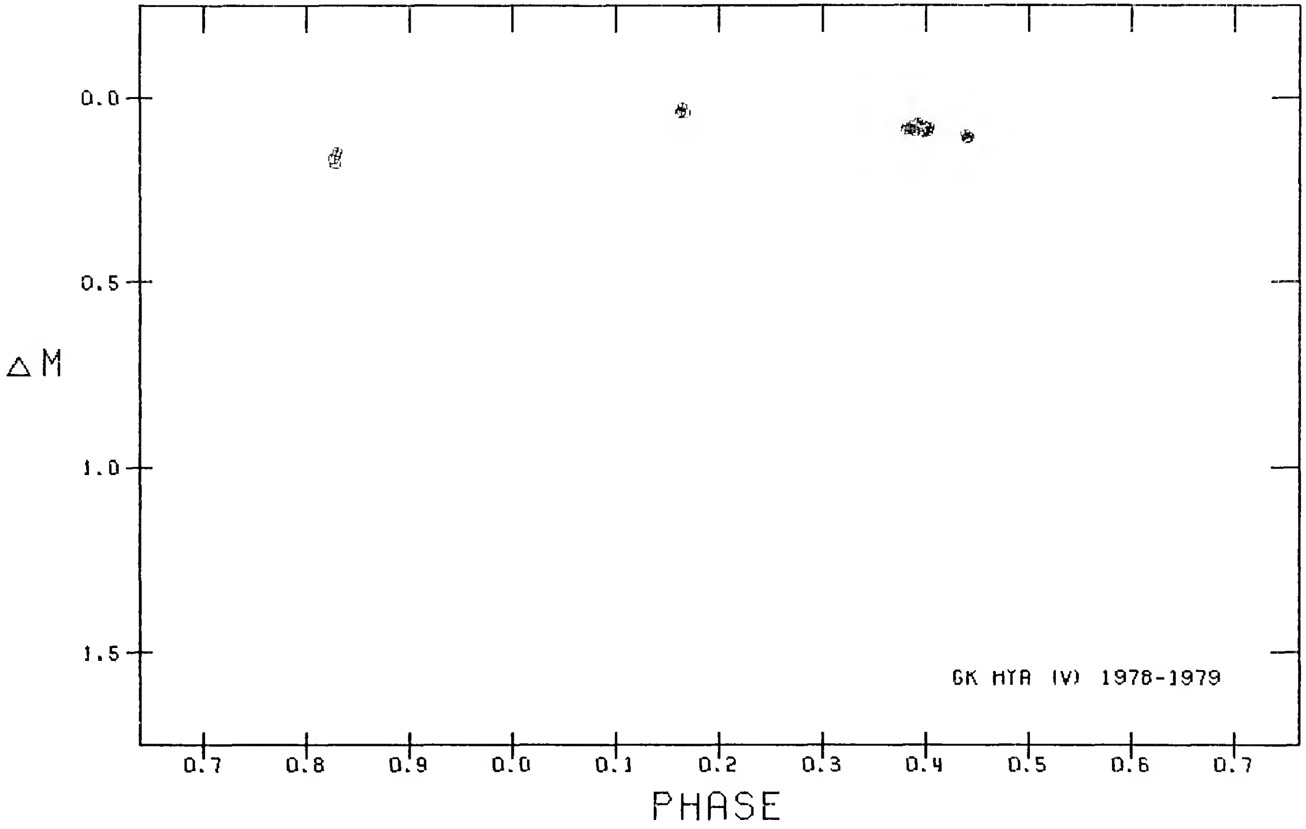

Fig. 69.-1978-1979 visual light curve for GK Hya.

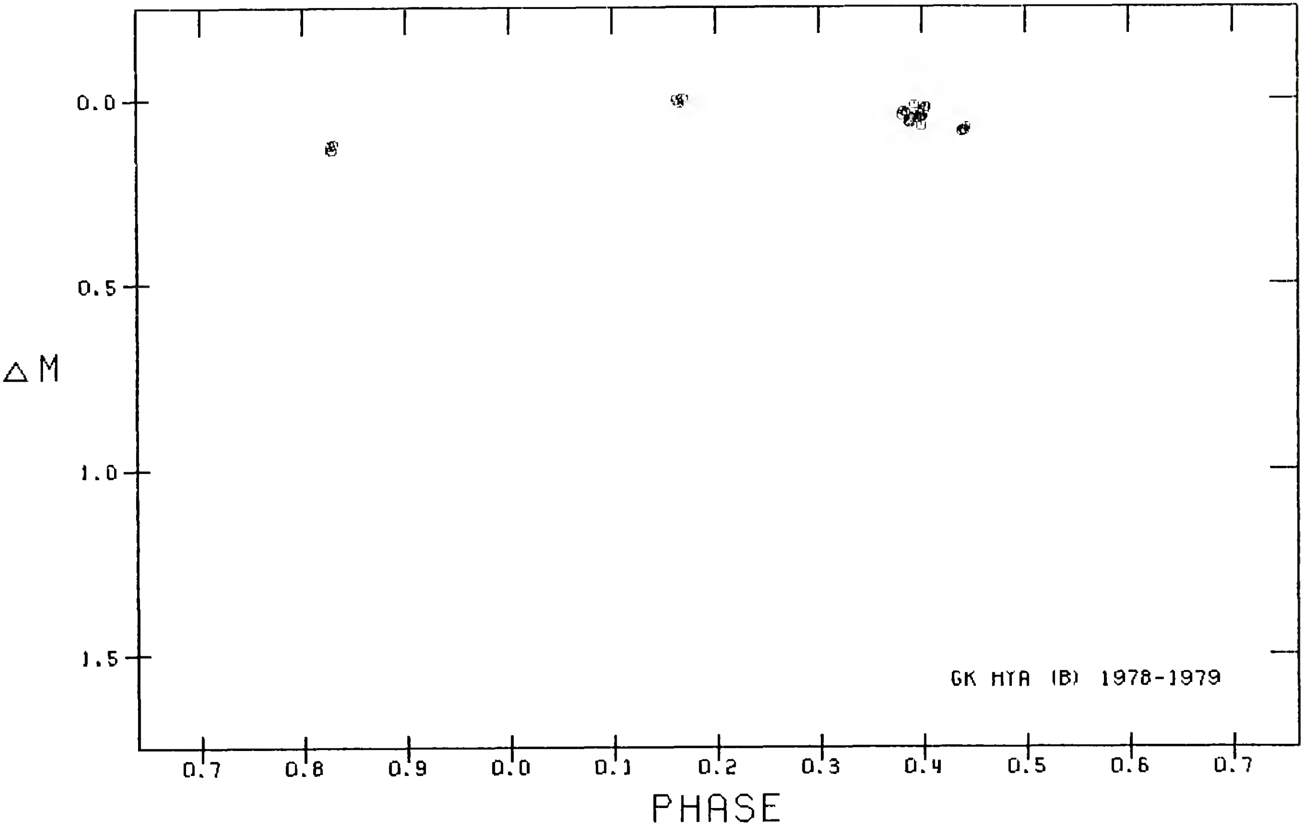

Fig. 70.–1978–1979 blue light curve for GK Hya.

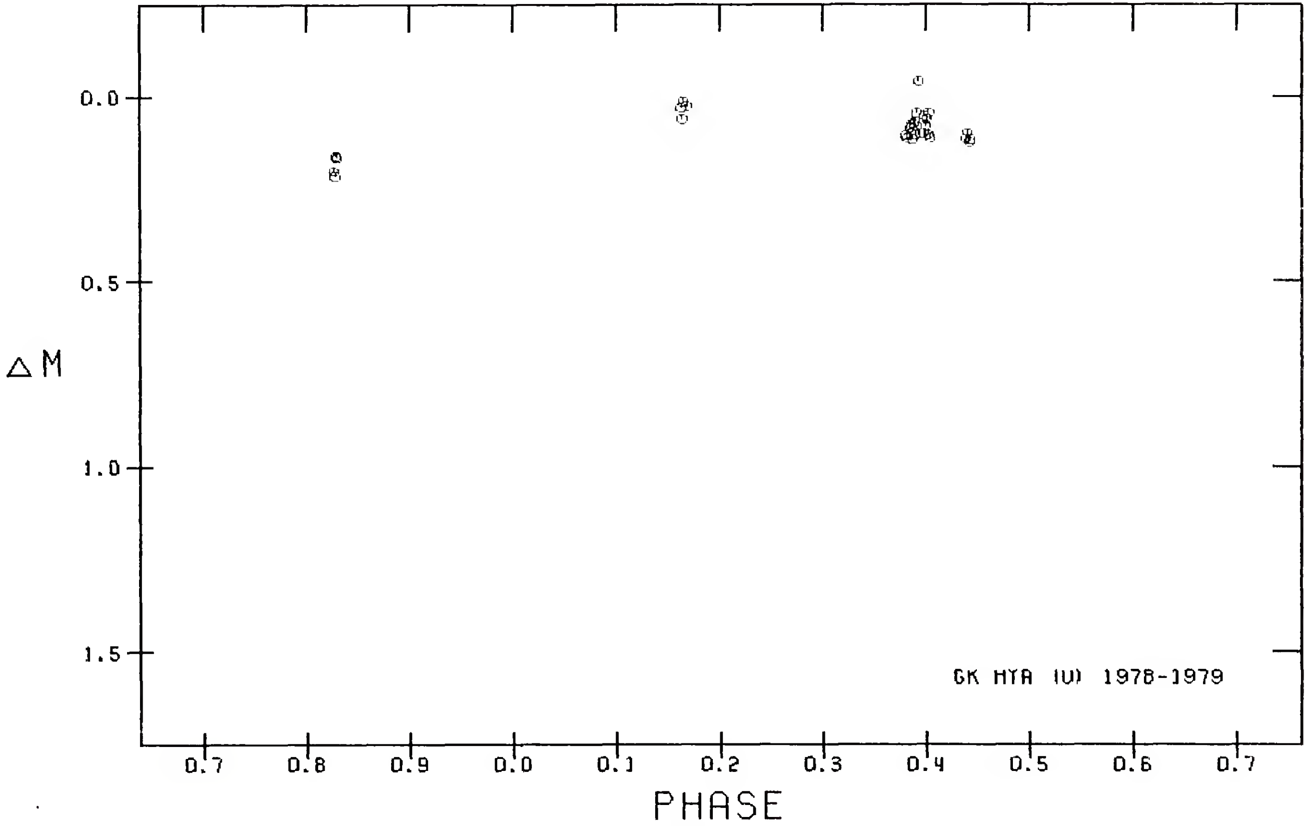

Fig. 71.-1978-1979 ultraviolet light curve for GK Hya.

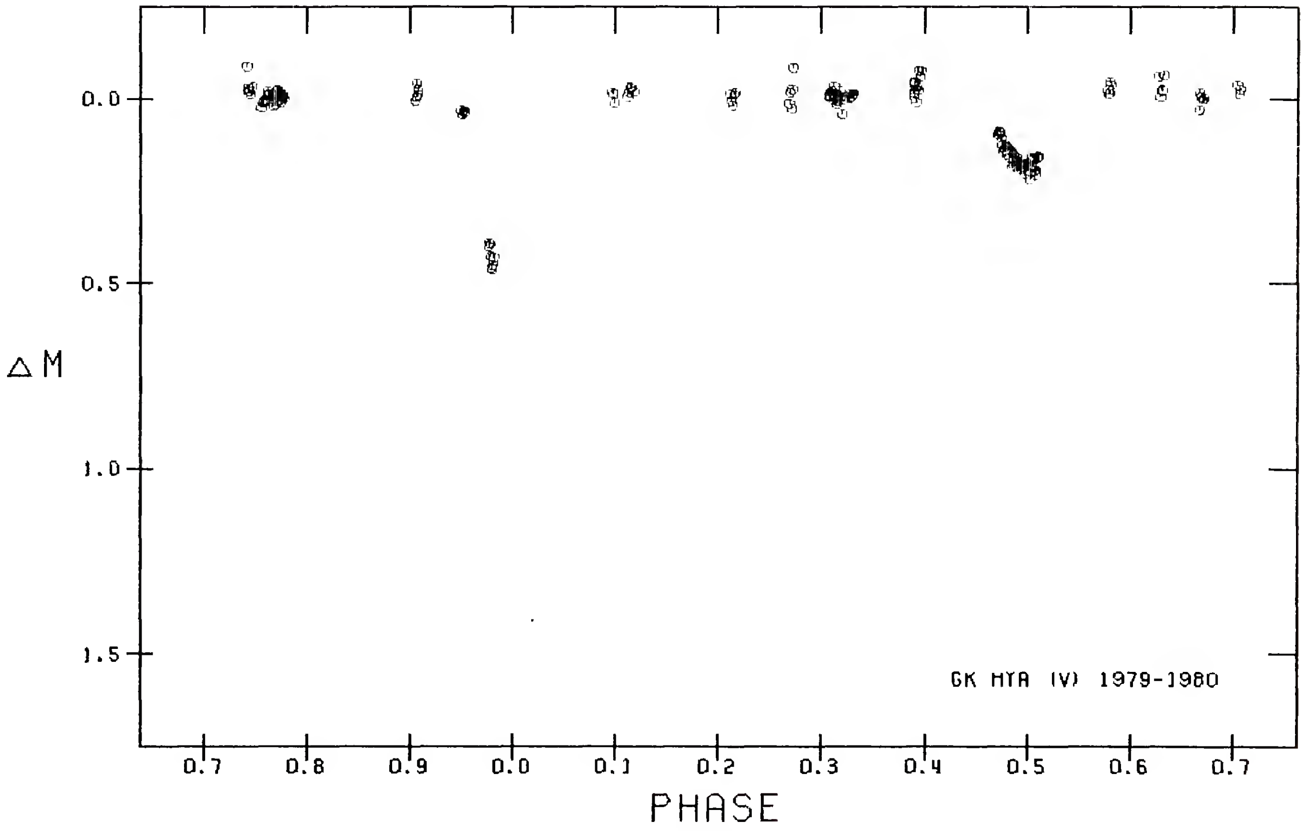

Fig. 72.--1979-1980 visual light curve for GK Hya.

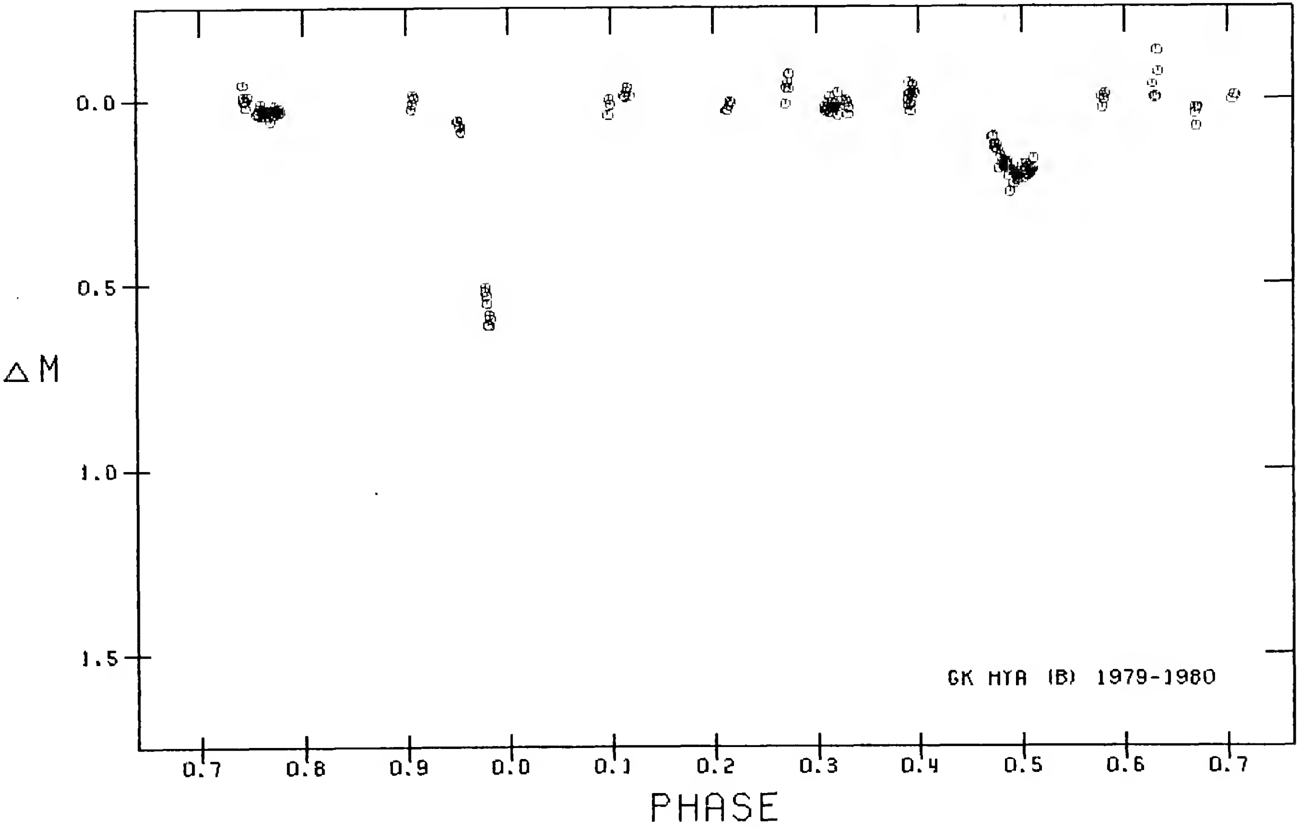

Fig. 73.-1979-1980 blue light curve for GK Hya.

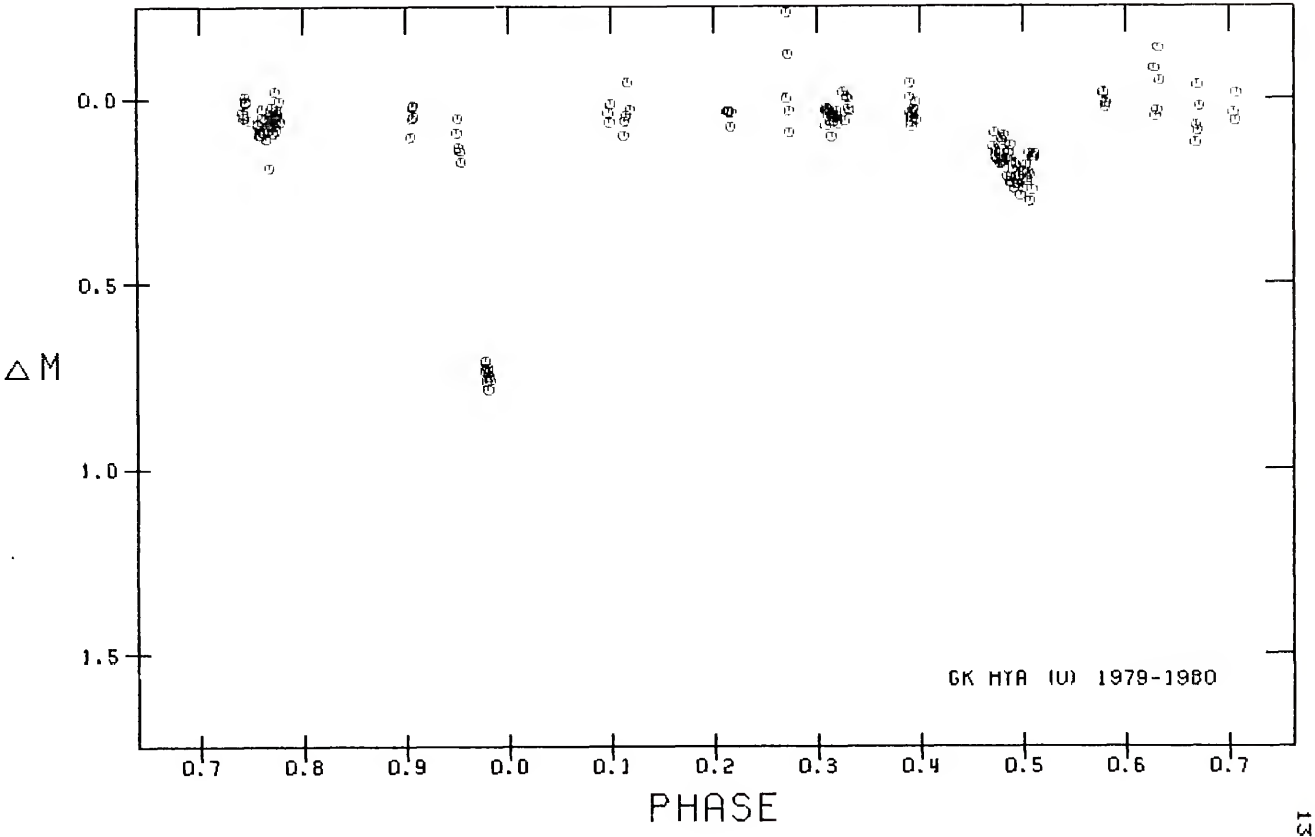

Fig. 74.-1979-1980 ultraviolet light curve for GK Hya.

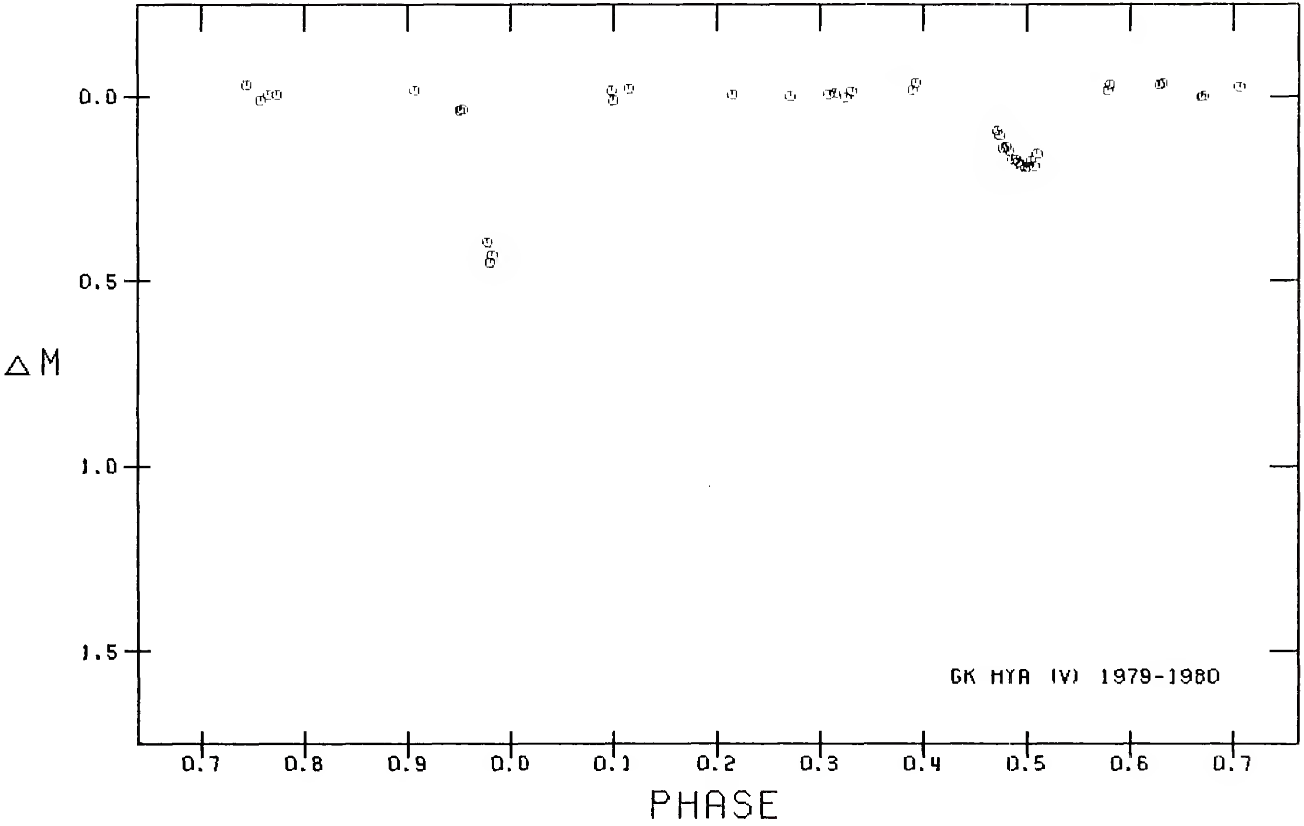

Fig. 75.-1979-1980 visual normal points for GK Hya.

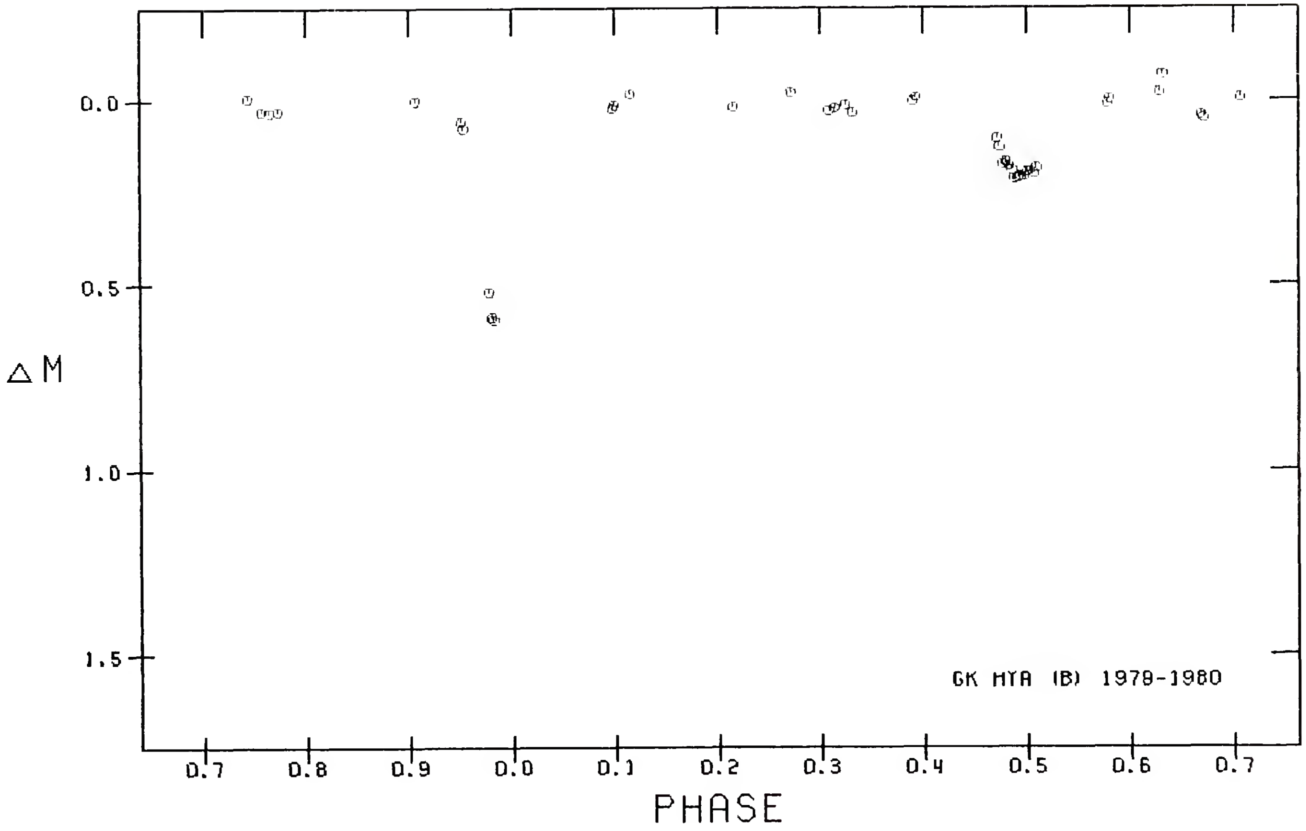

Fig. 76.-1979-1980 blue normal points for GK Hya.

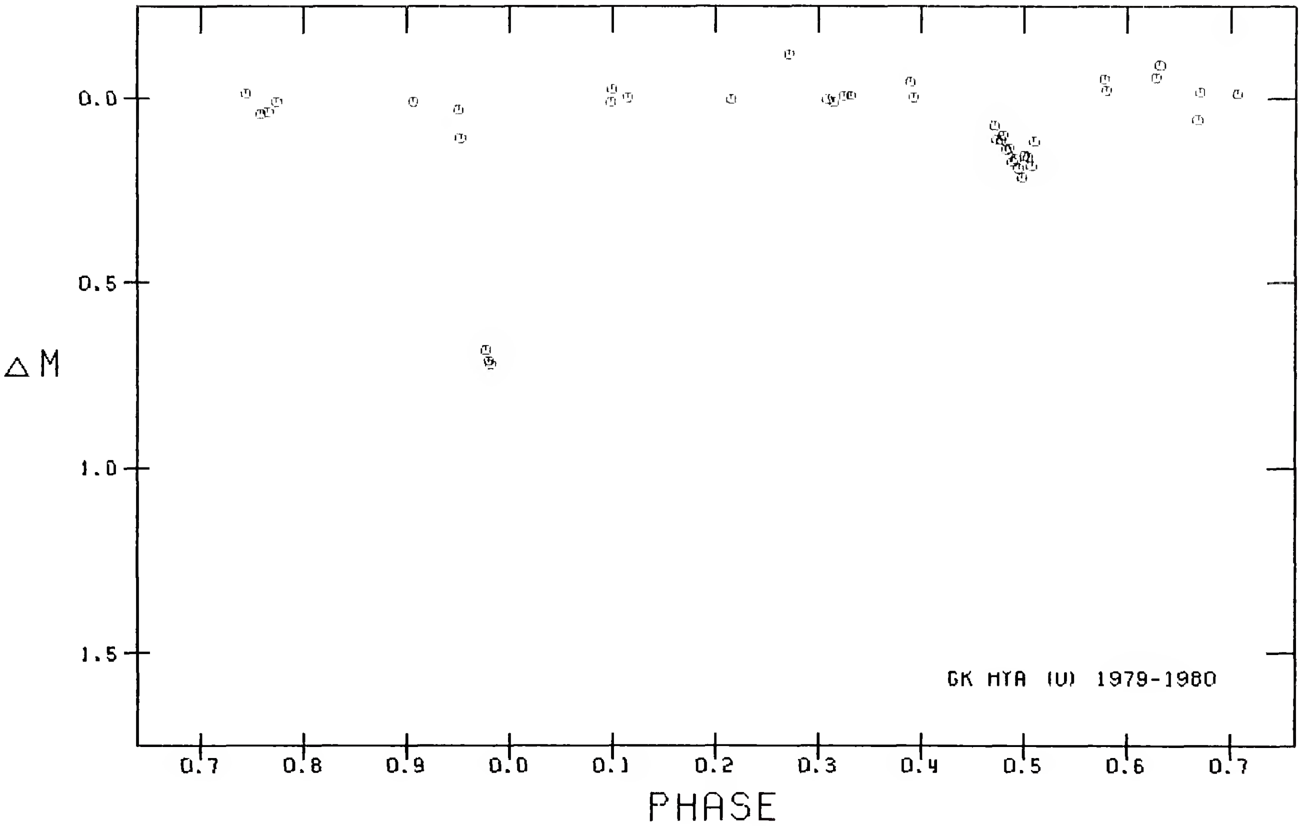

Fig. 77.-1979-1980 ultraviolet normal points for GK Hya.

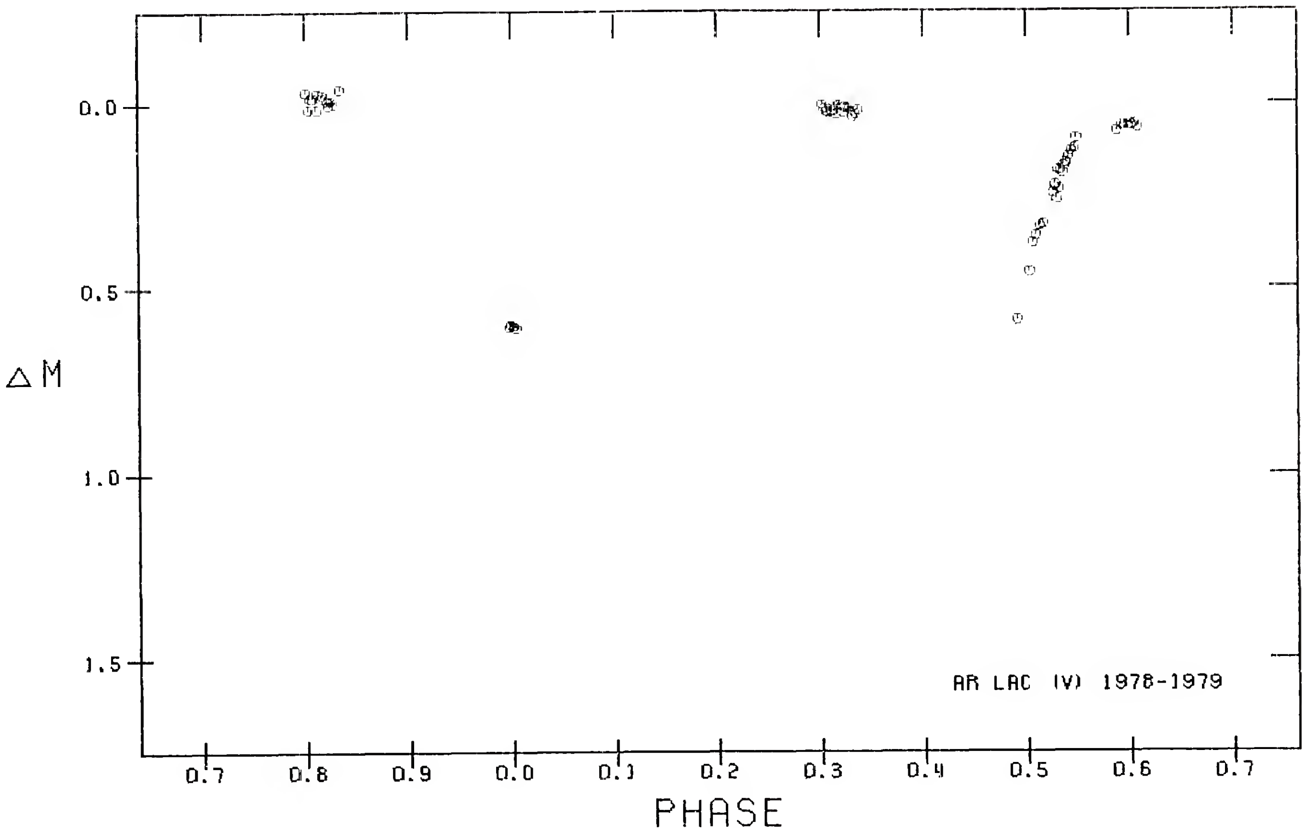

Fig. 78.-1978-1979 visual light curve for AR Lac.

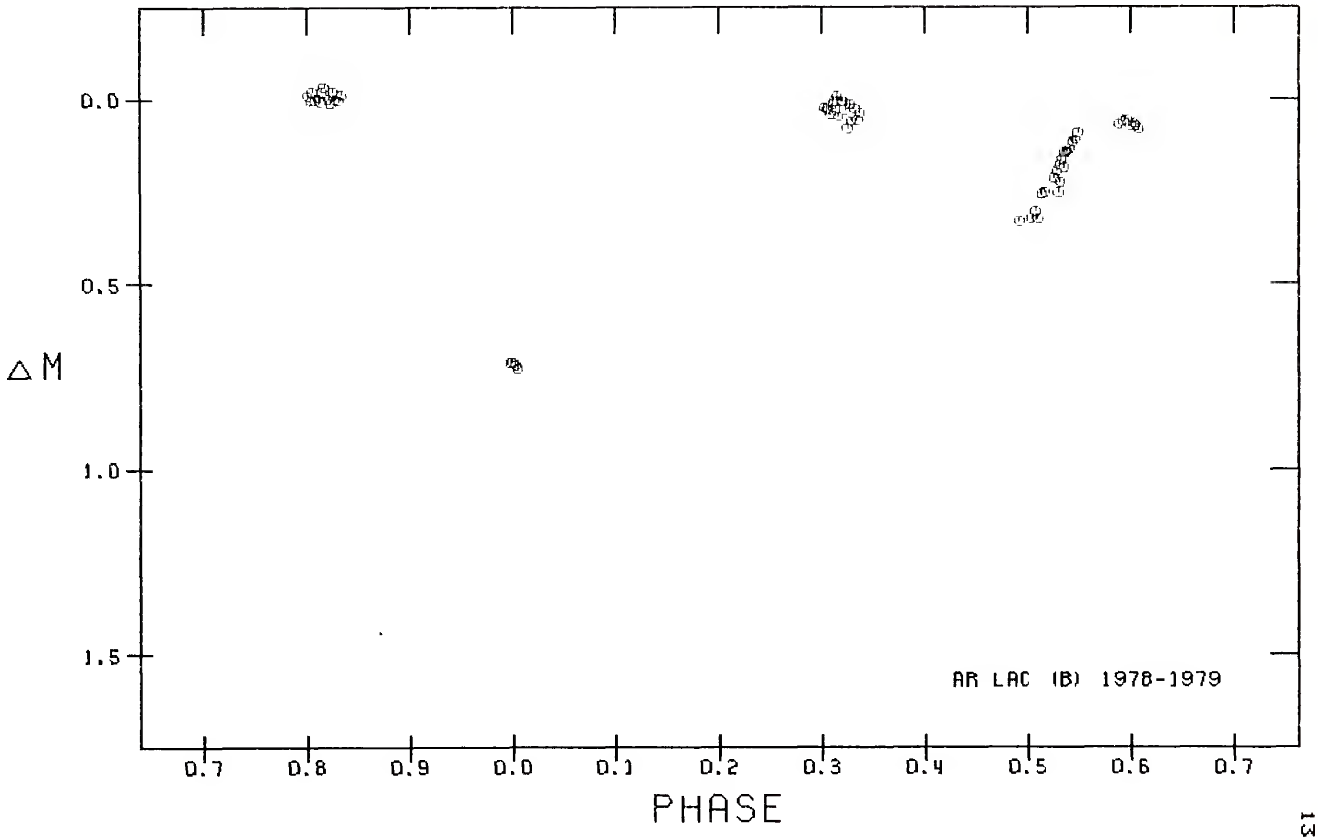

Fig. 79.—1978-1979 blue light curve for AR Lac.

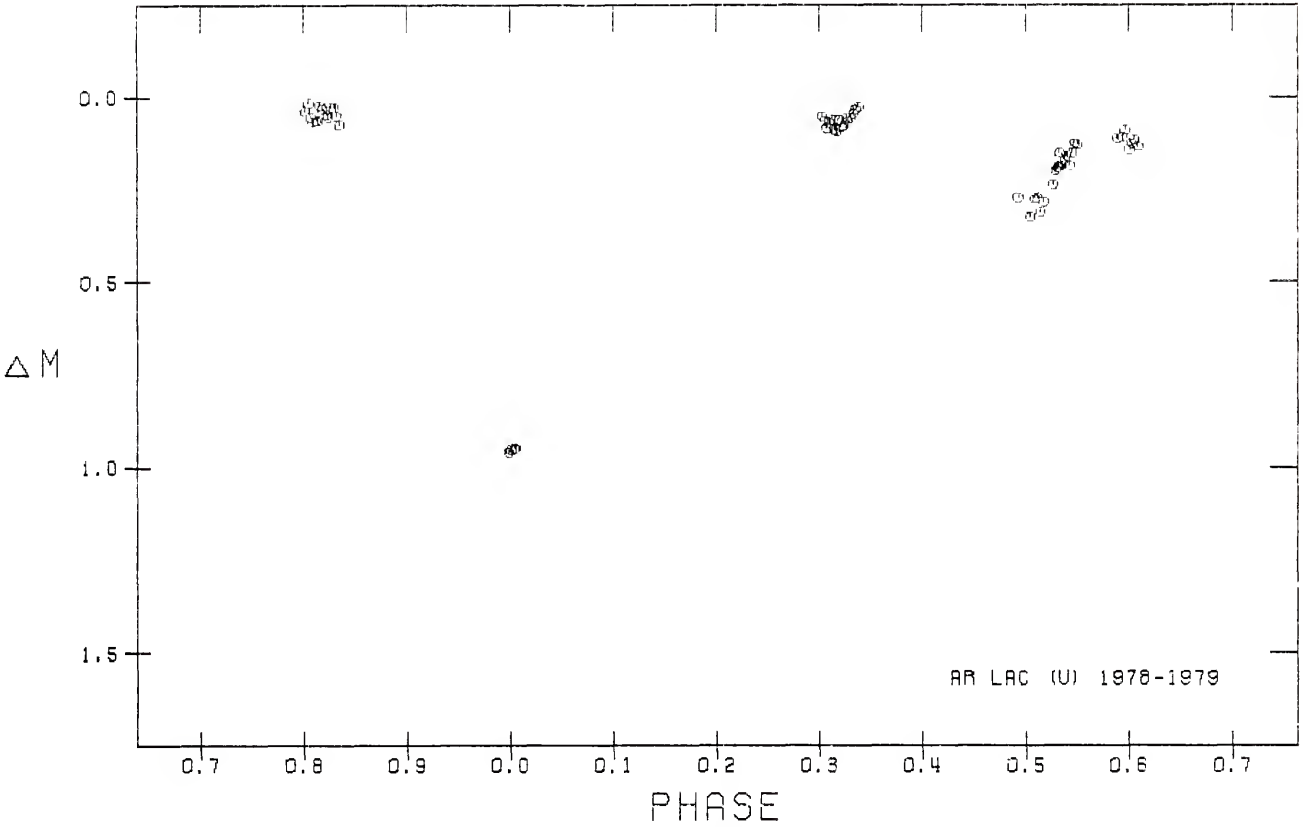

Fig. 80.-1978-1979 ultraviolet light curve for AR Lac.

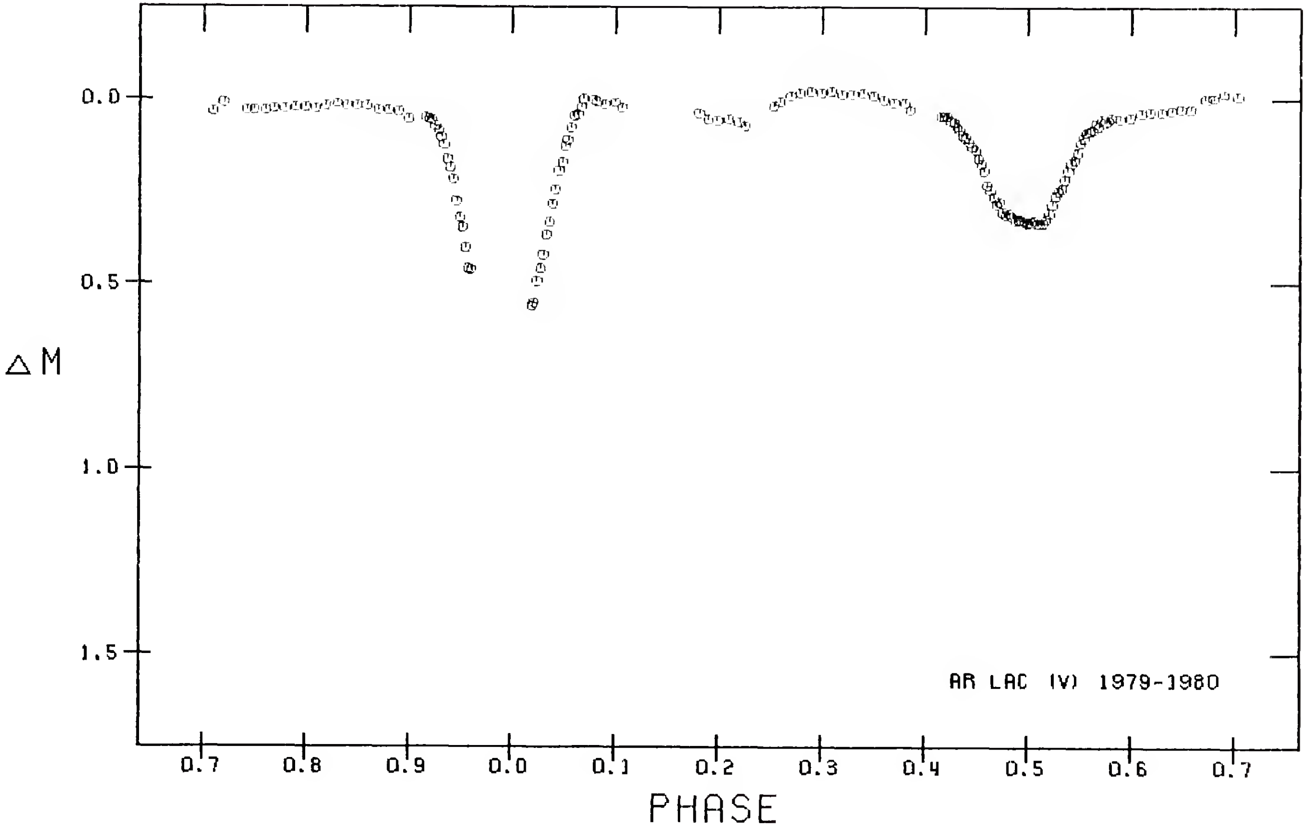

Fig. 81.-1979-1980 visual normal points for AR Lac.

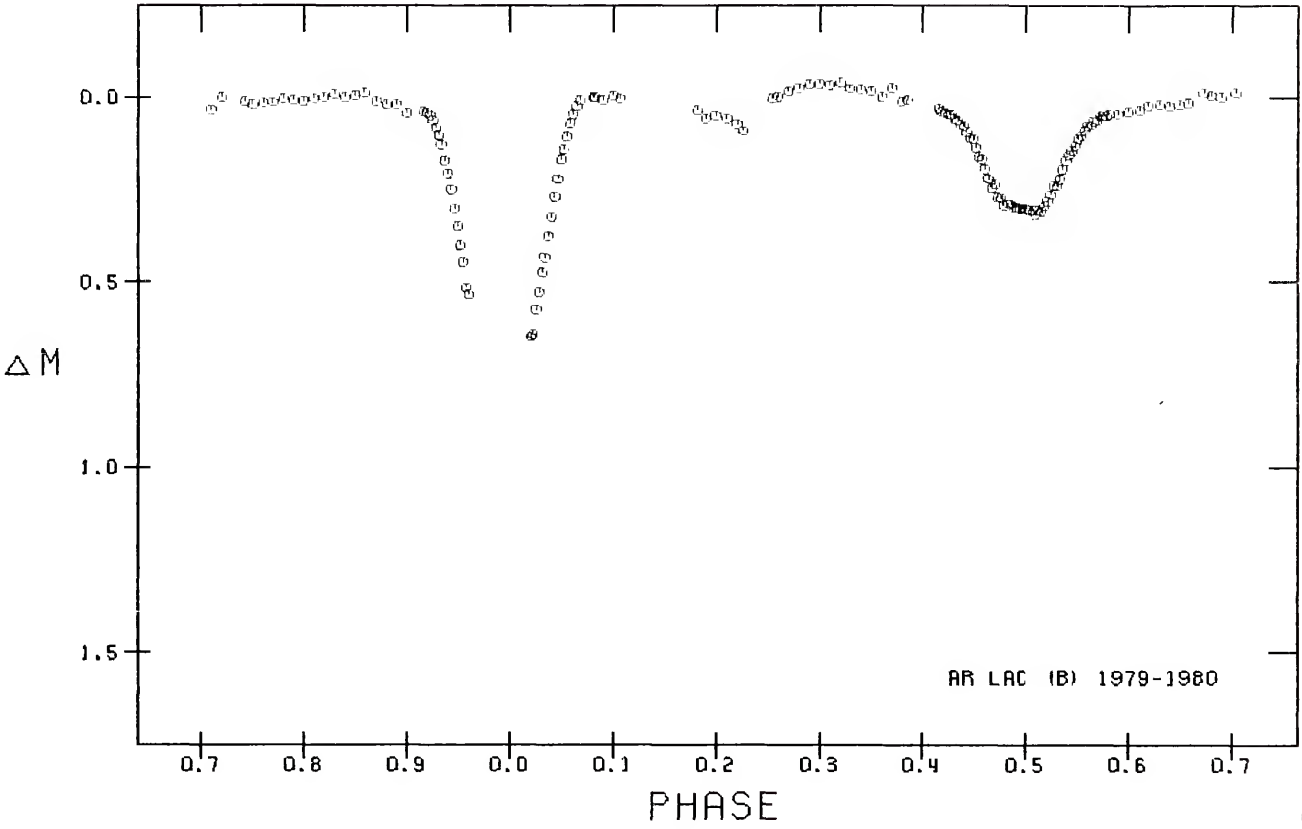

Fig. 82.-1979-1980 blue normal points for AR Lac.

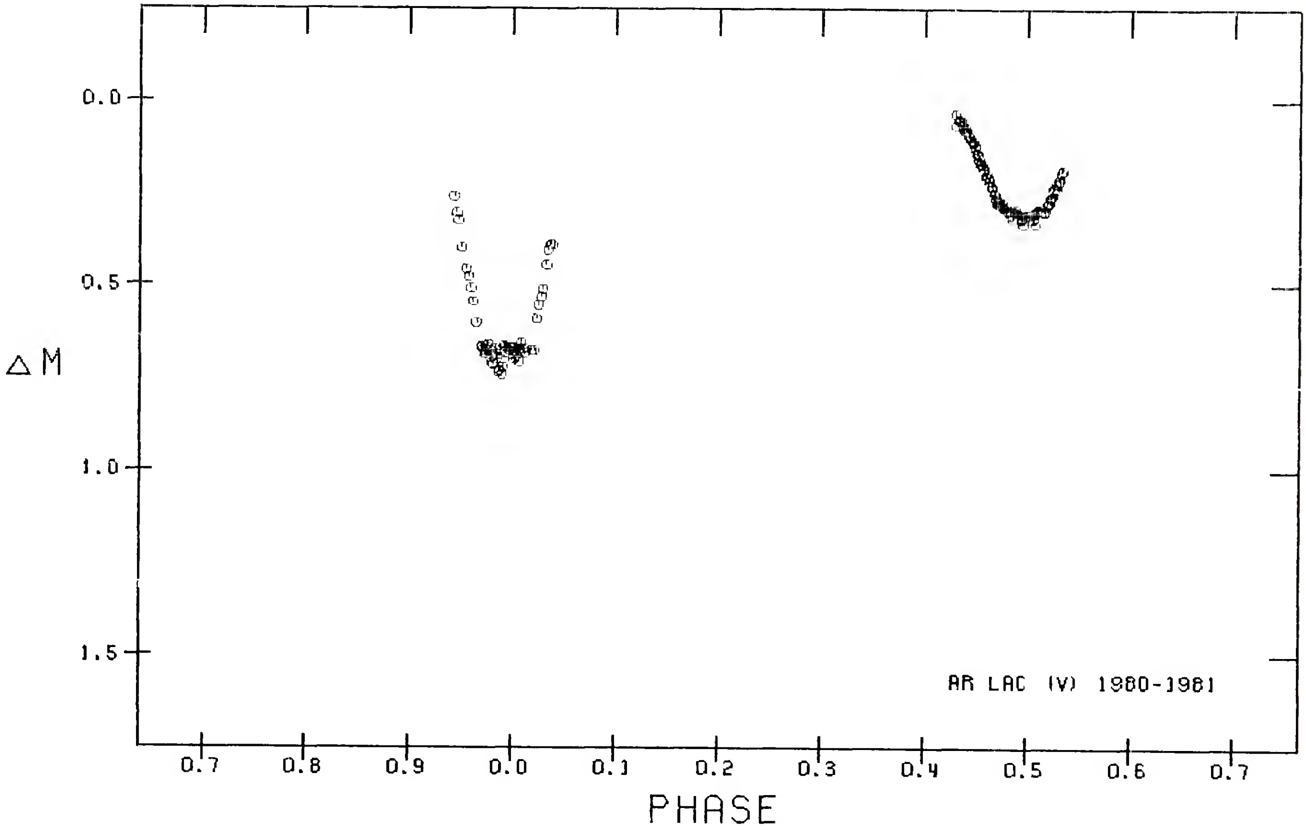

Fig. 83.-1980-1981 visual light curve for AR Lac.

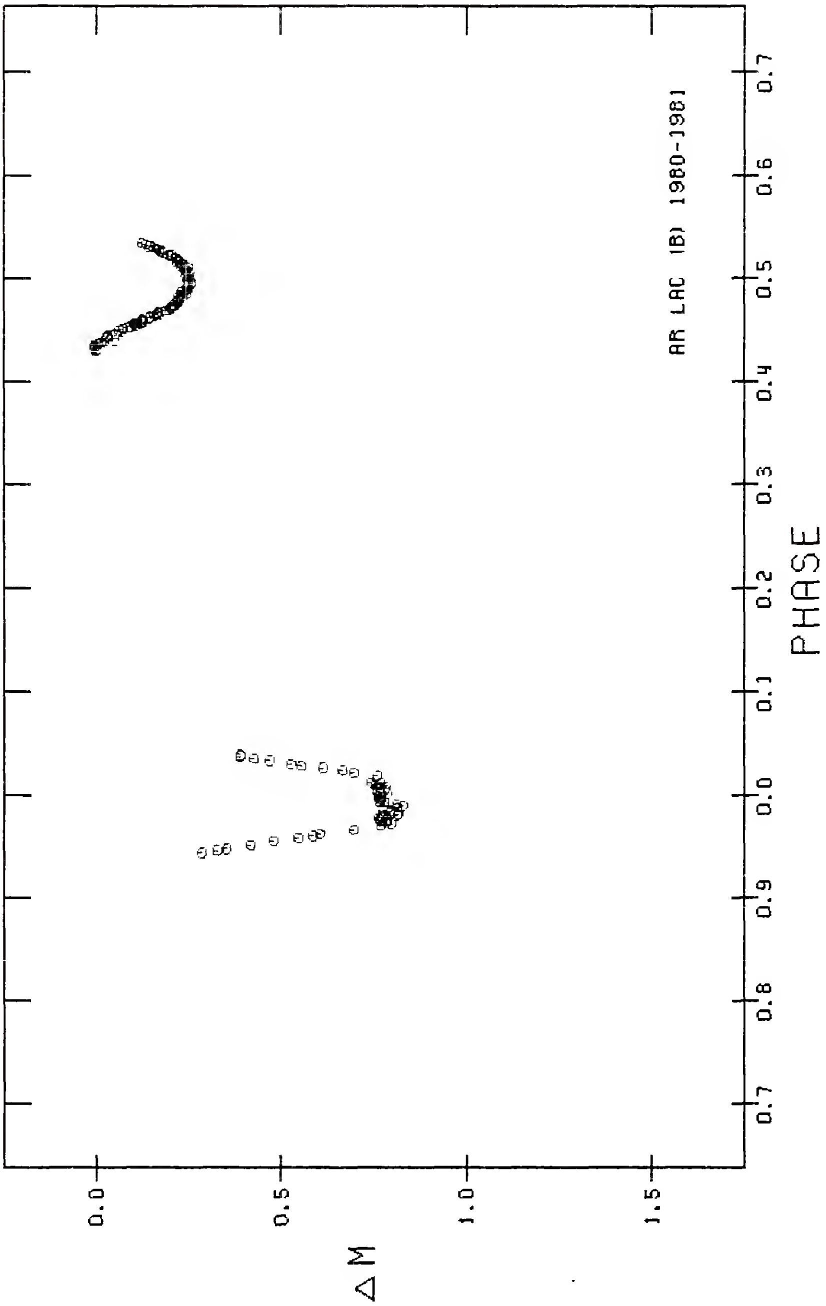

Fig. 84.-1980-1981 blue light curve for AR Lac.

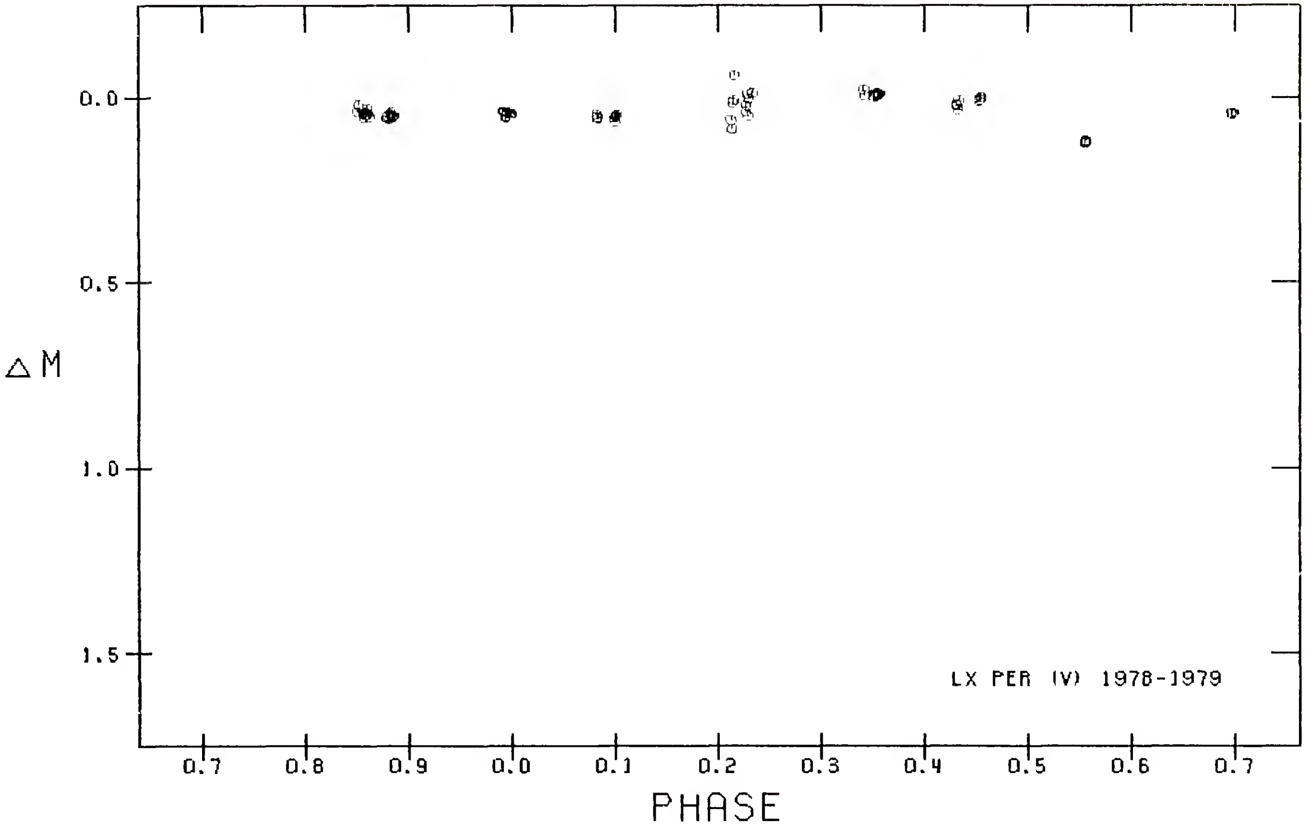

Fig. 85.-1978-1979 visual light curve for LX Per.

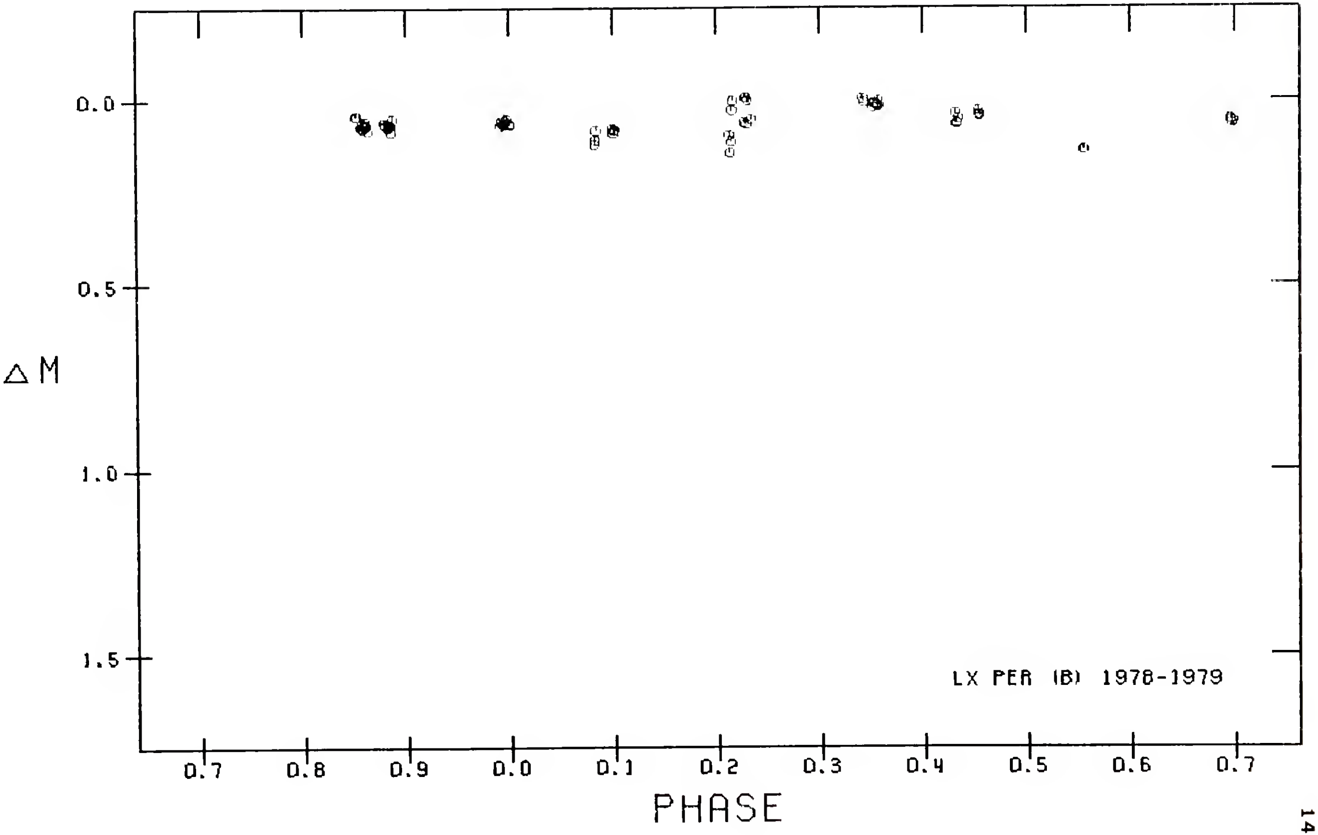

Fig. 86.-1978-1979 blue light curve for LX Per.

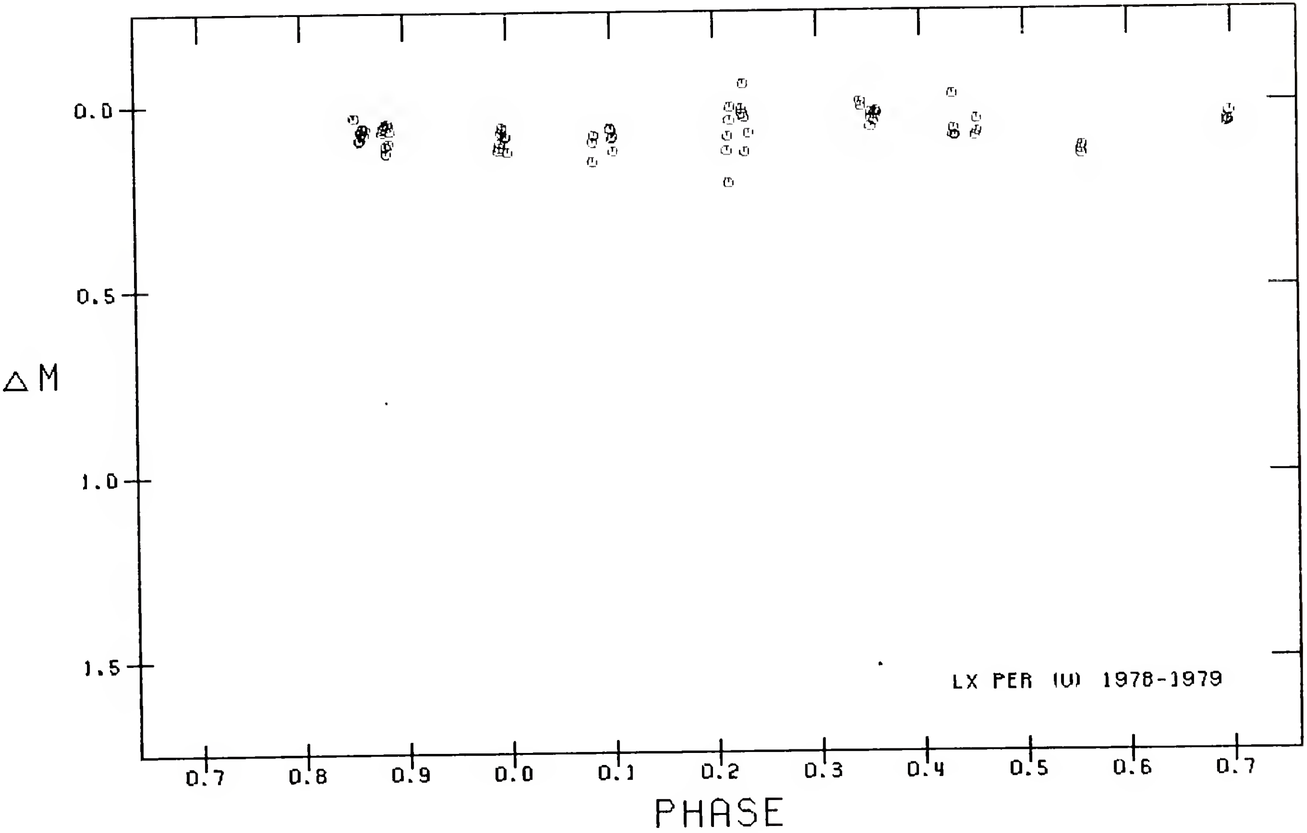

Fig. 87.-1978-1979 ultraviolet light curve for LX Per.

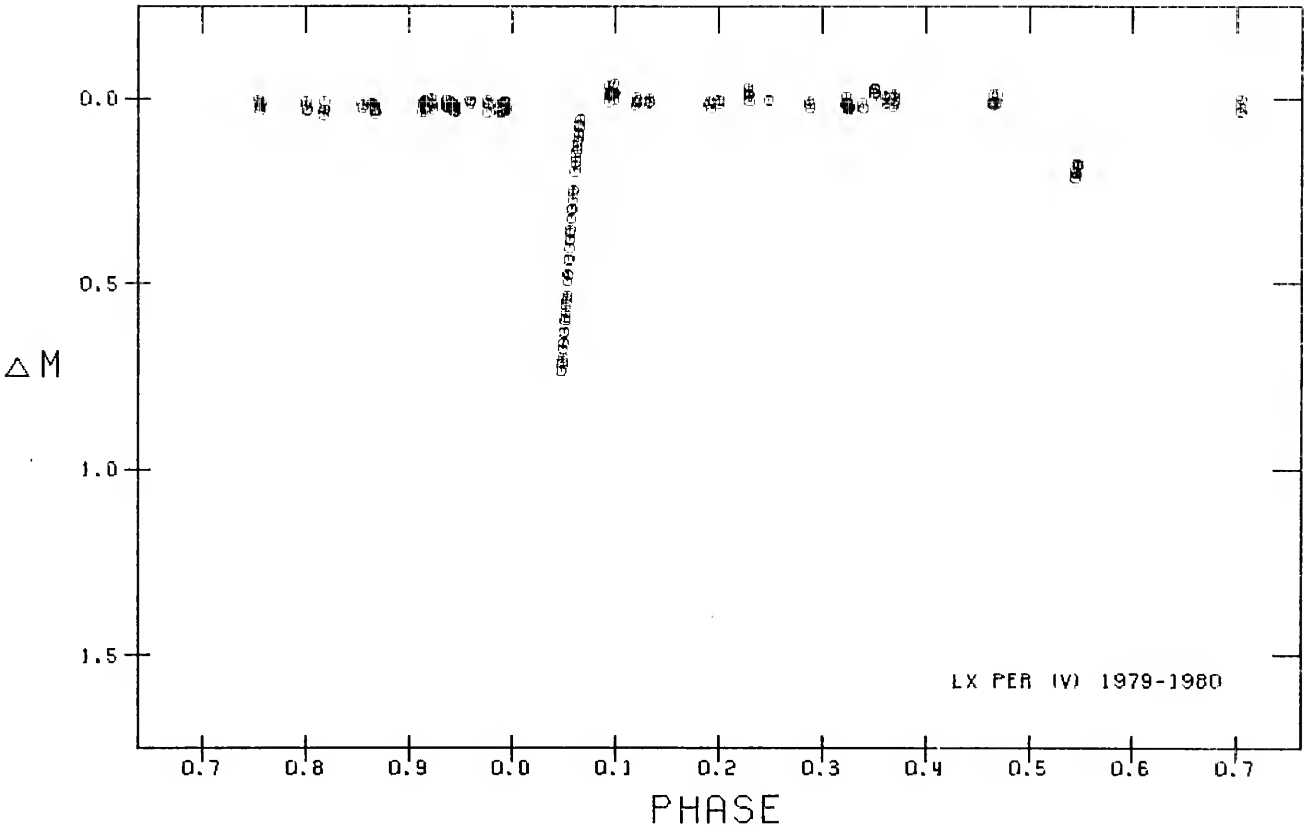

Fig. 88.-1979-1980 visual light curve for LX Per.

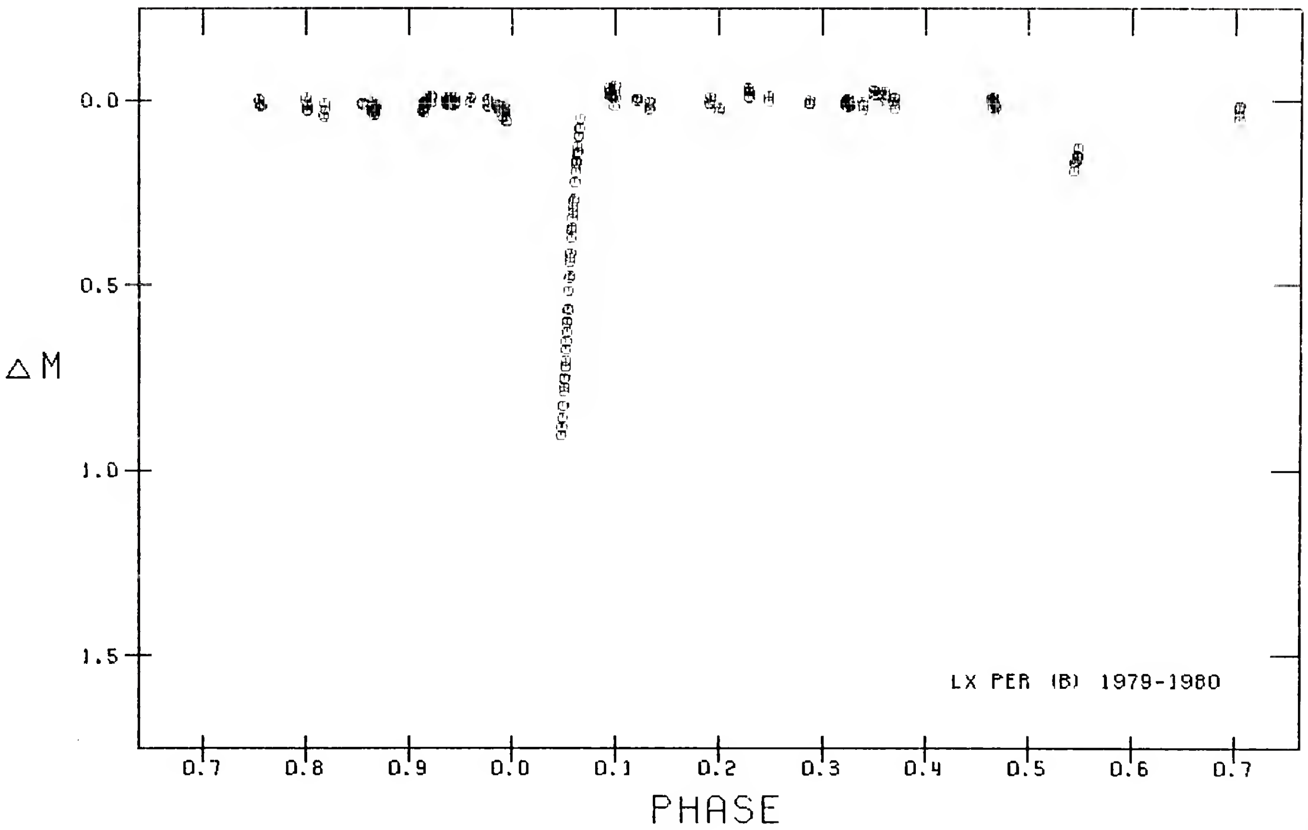

Fig. 89.-1979-1980 blue light curve for LX Per.

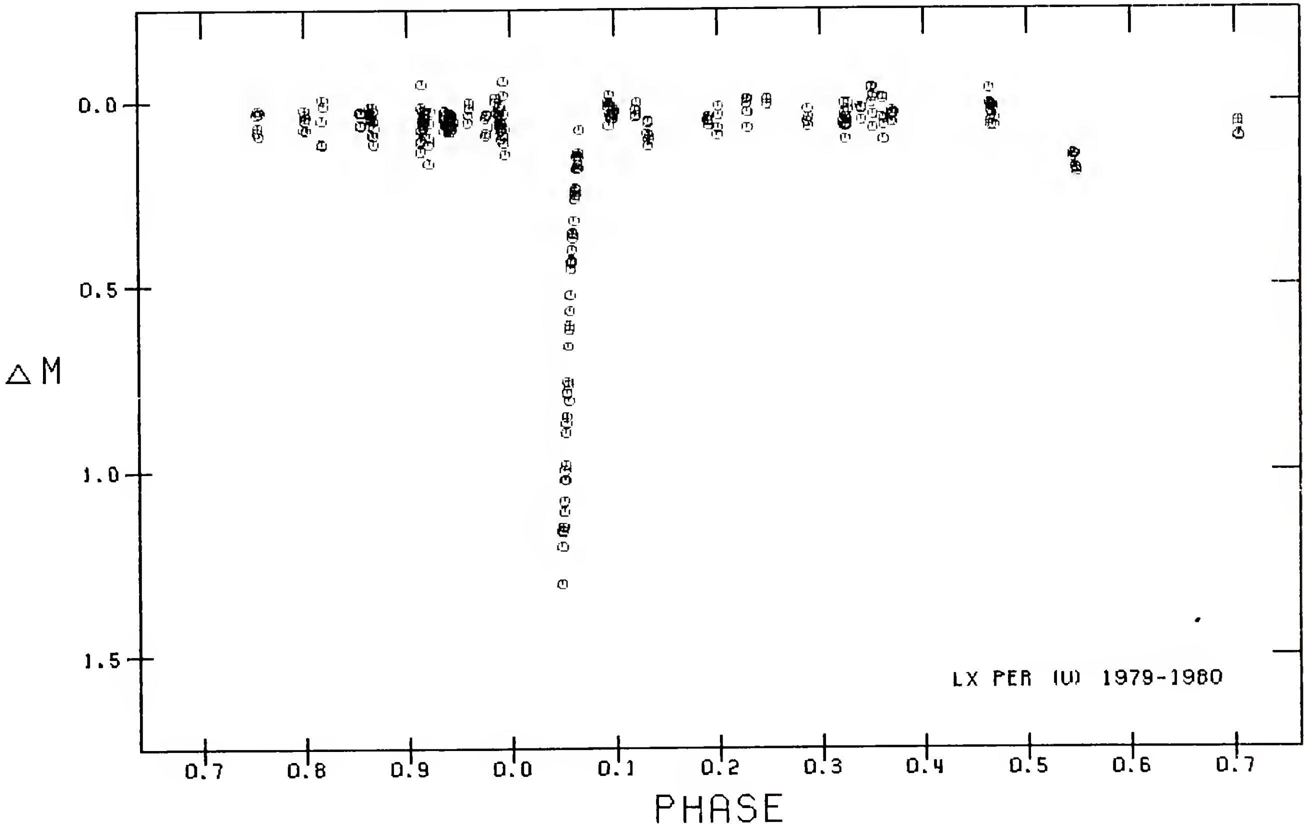

Fig. 90.-1979-1980 ultraviolet light curve for LX Per.

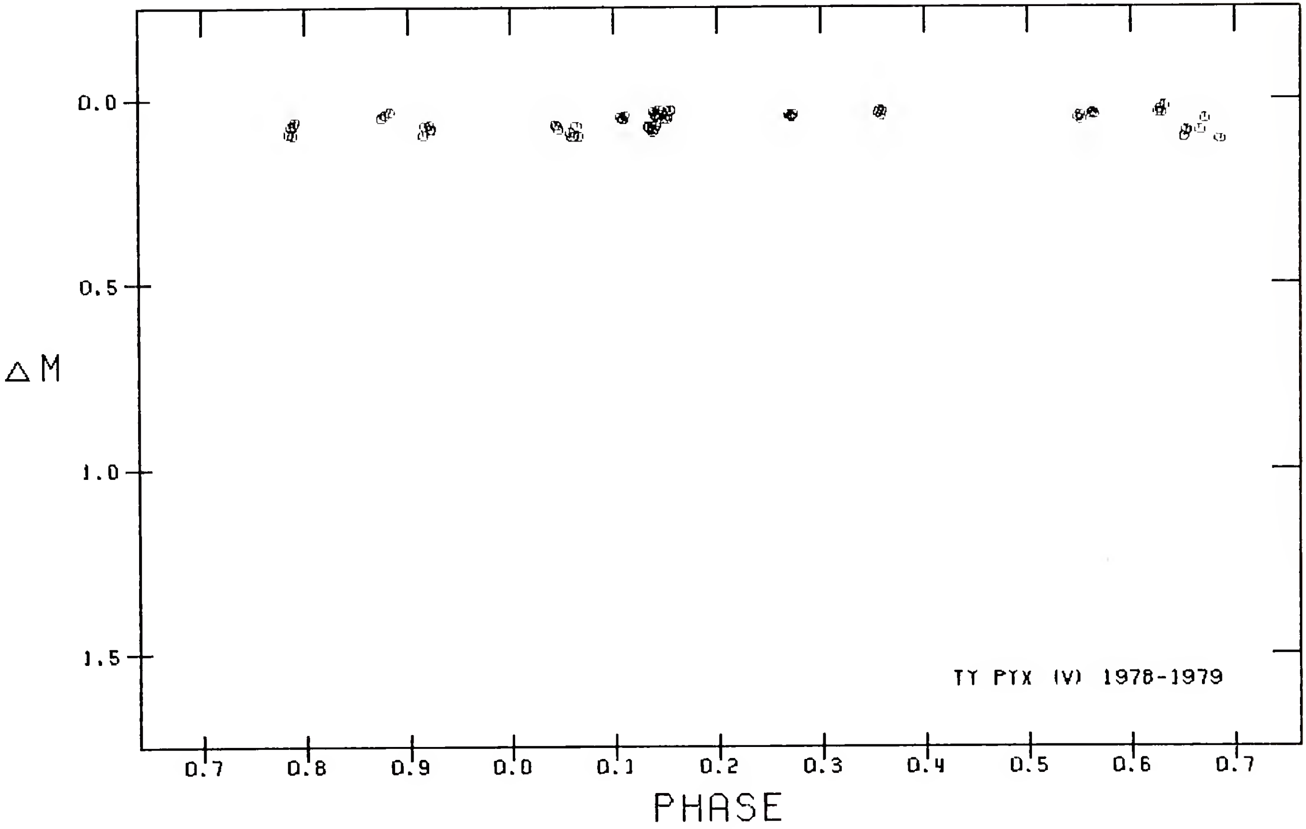

Fig. 91.-1978-1979 visual light curve for TY Pyx.

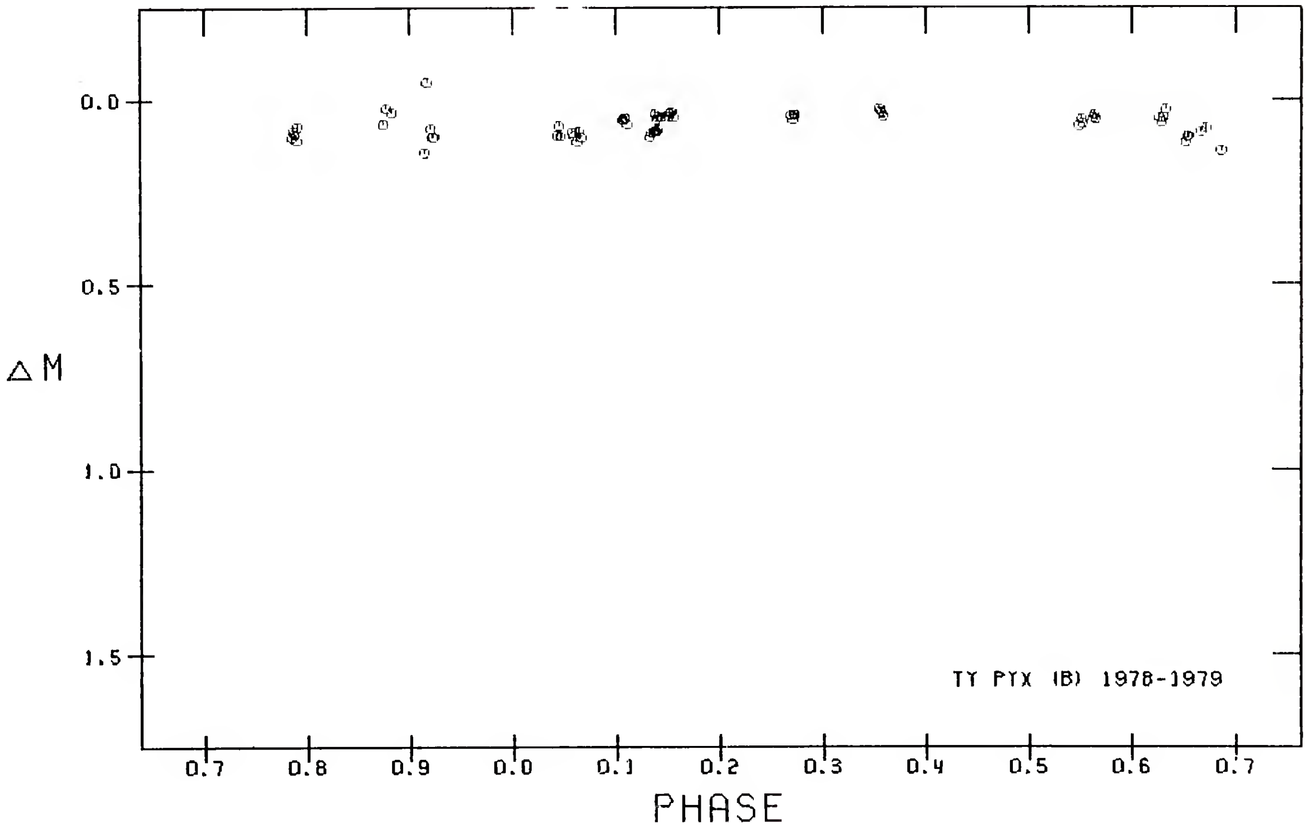

Fig. 92.-1978-1979 blue light curve for TY Pyx.

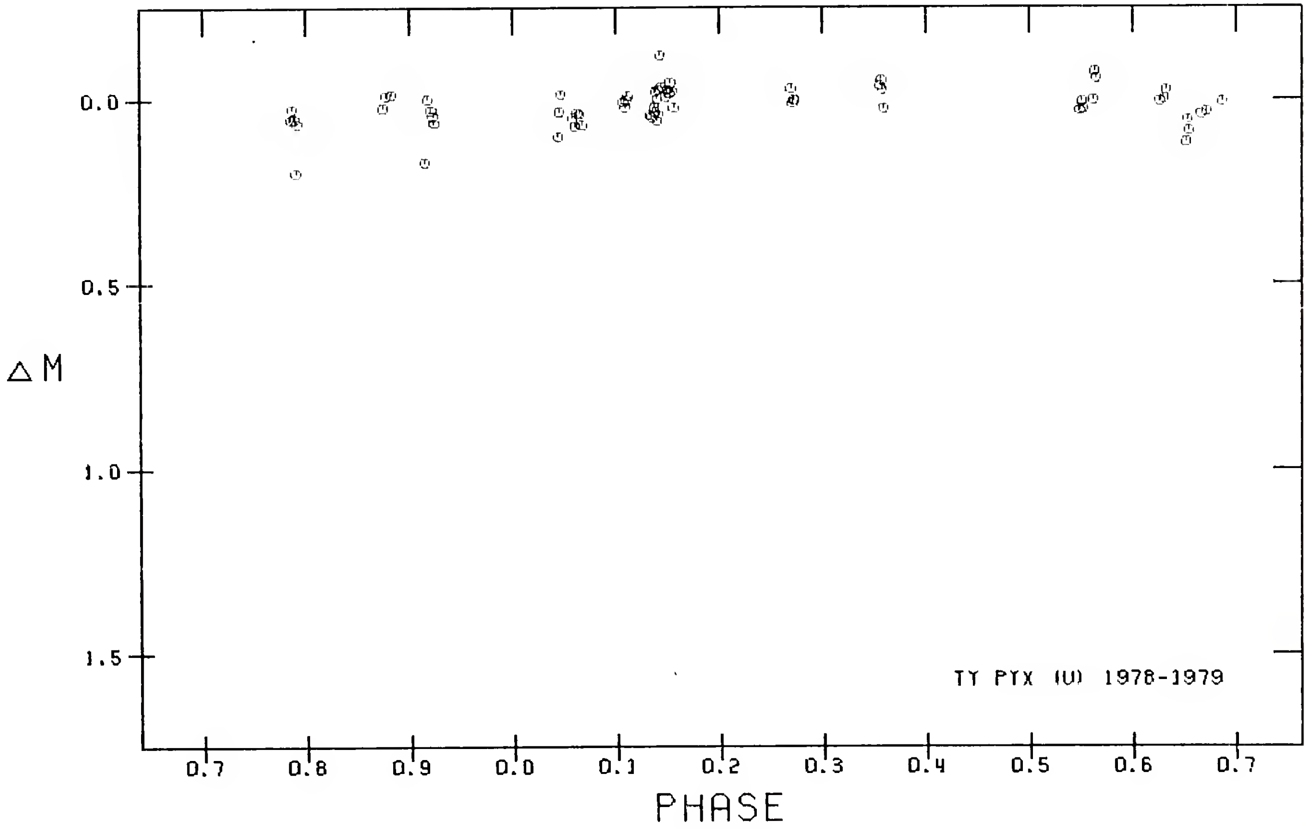

Fig. 93.-1978-1979 ultraviolet light curve for TY Pyx.

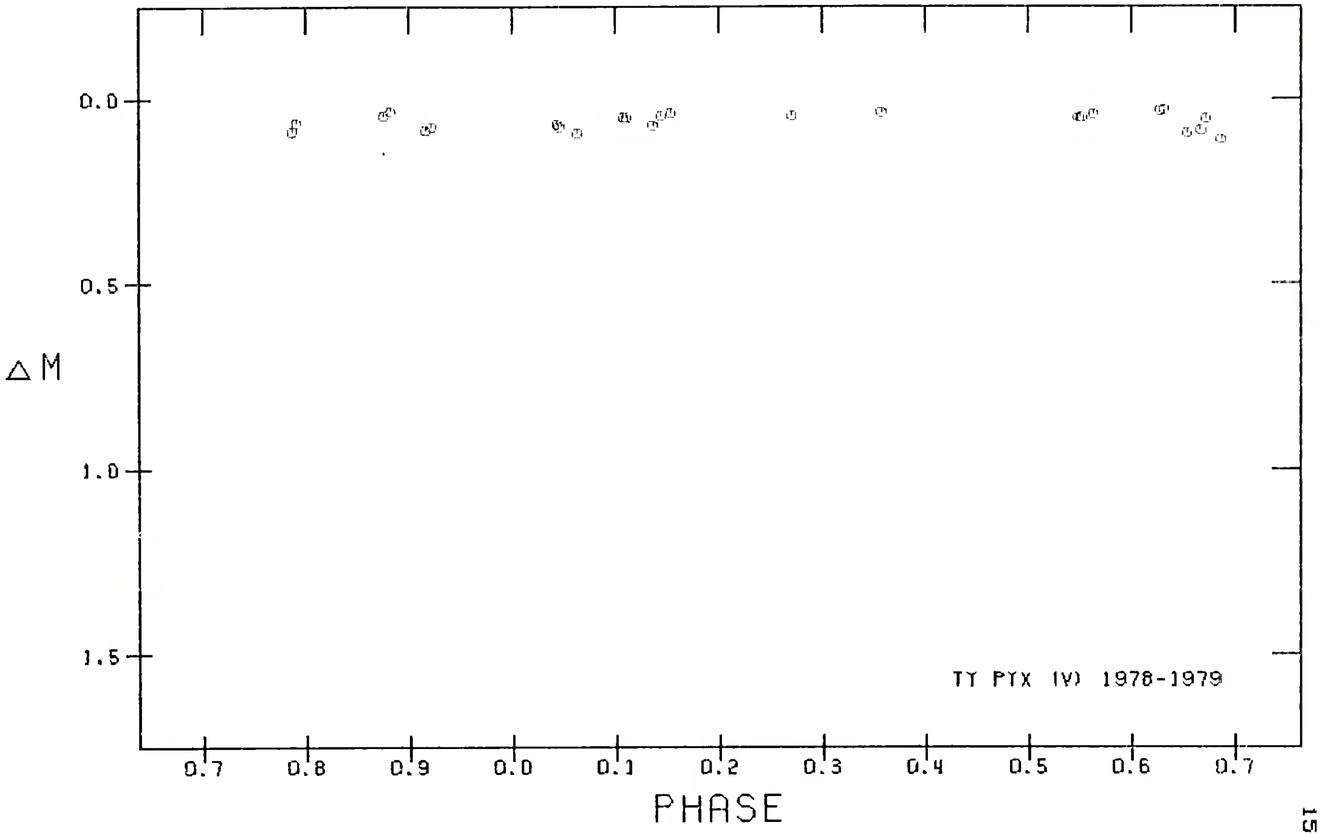

Fig. 94.-1978-1979 visual normal points for TY Pyx.

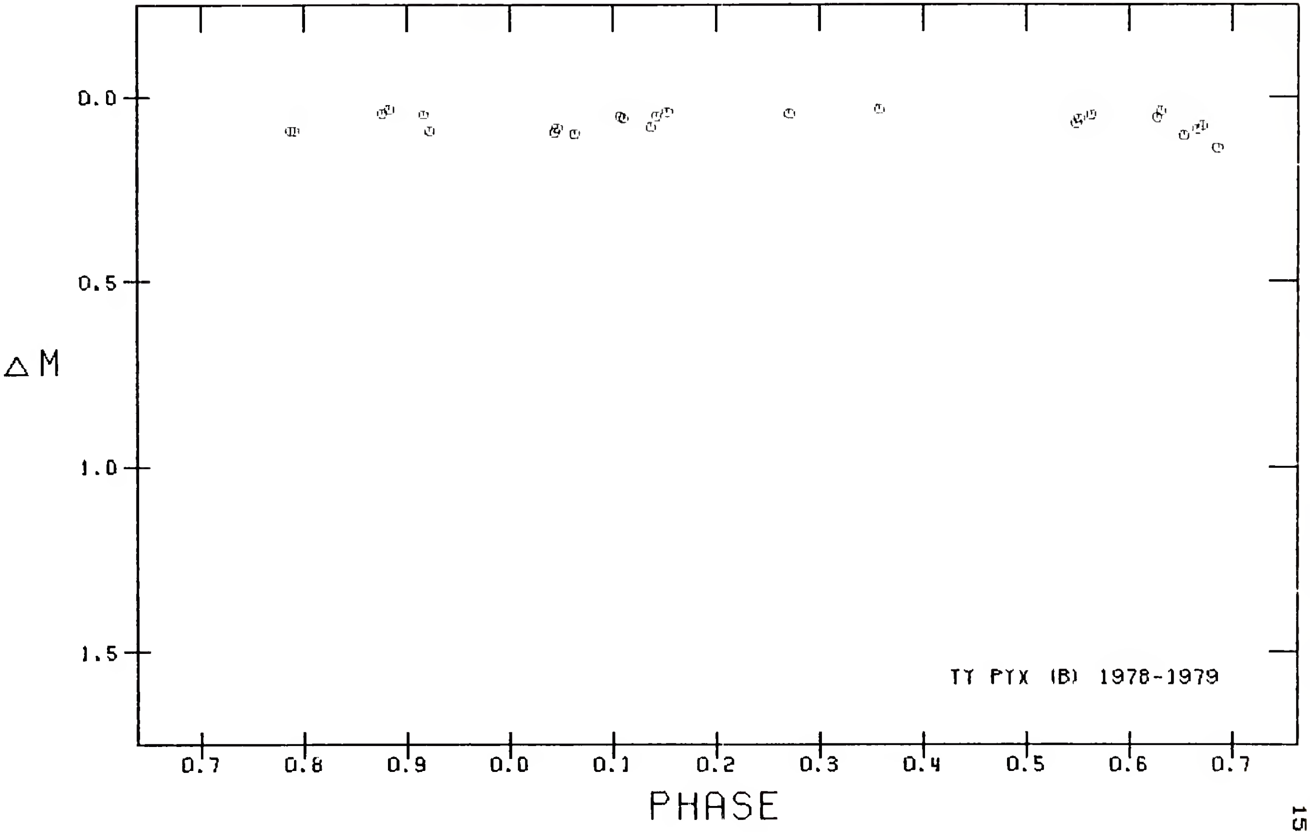

Fig. 95.-1978-1979 blue normal points for TY Pyx

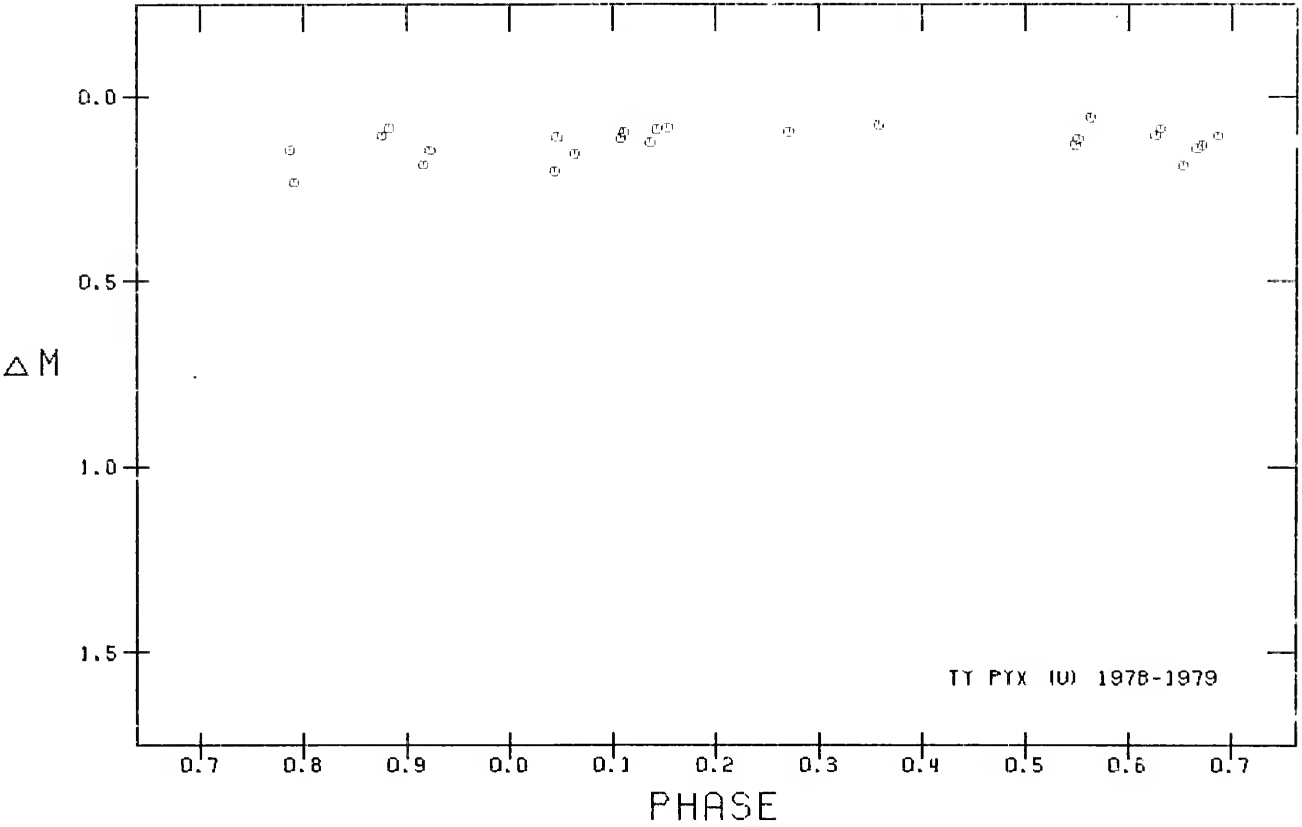

Fig. 96.-1978-1979 ultraviolet normal points for TY Pyx.

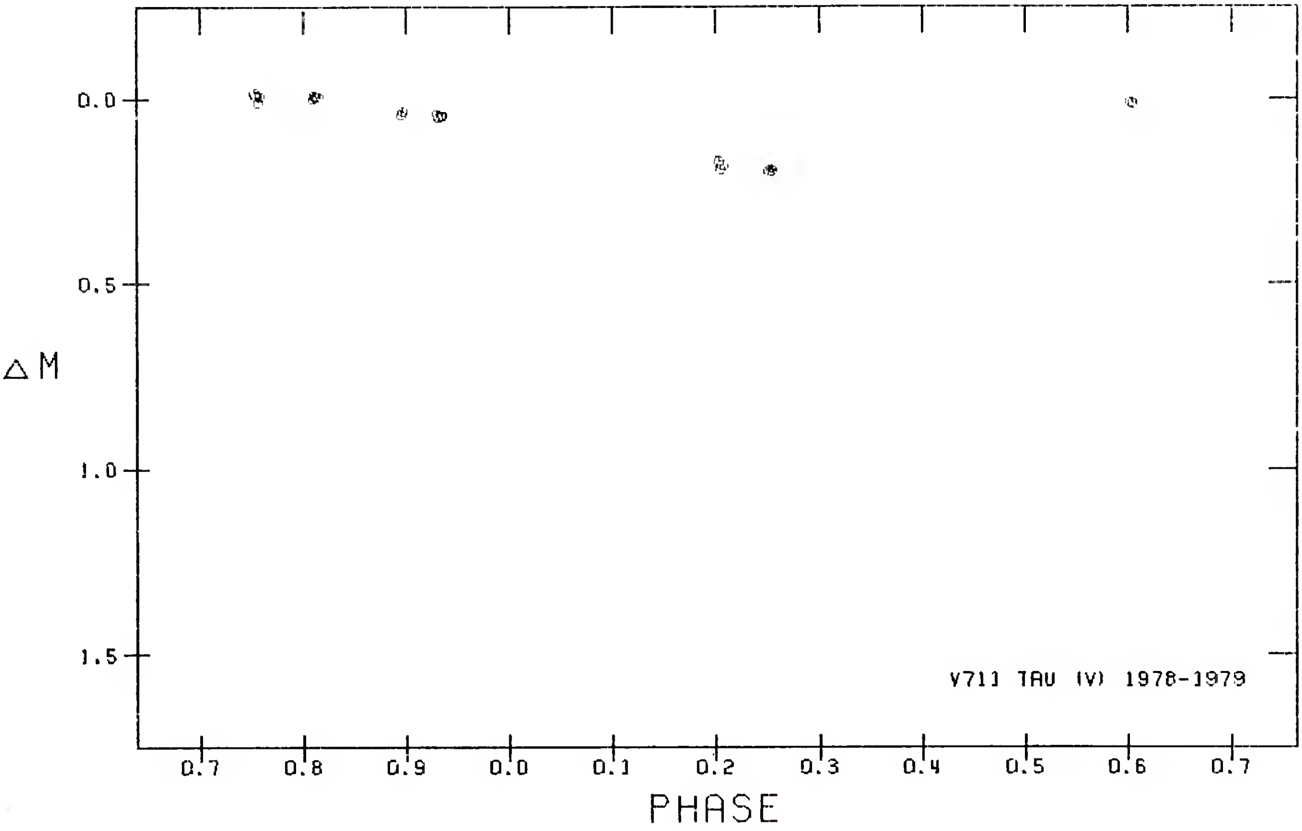

Fig. 97.-1978-1979 visual light curve for V711 Tau.

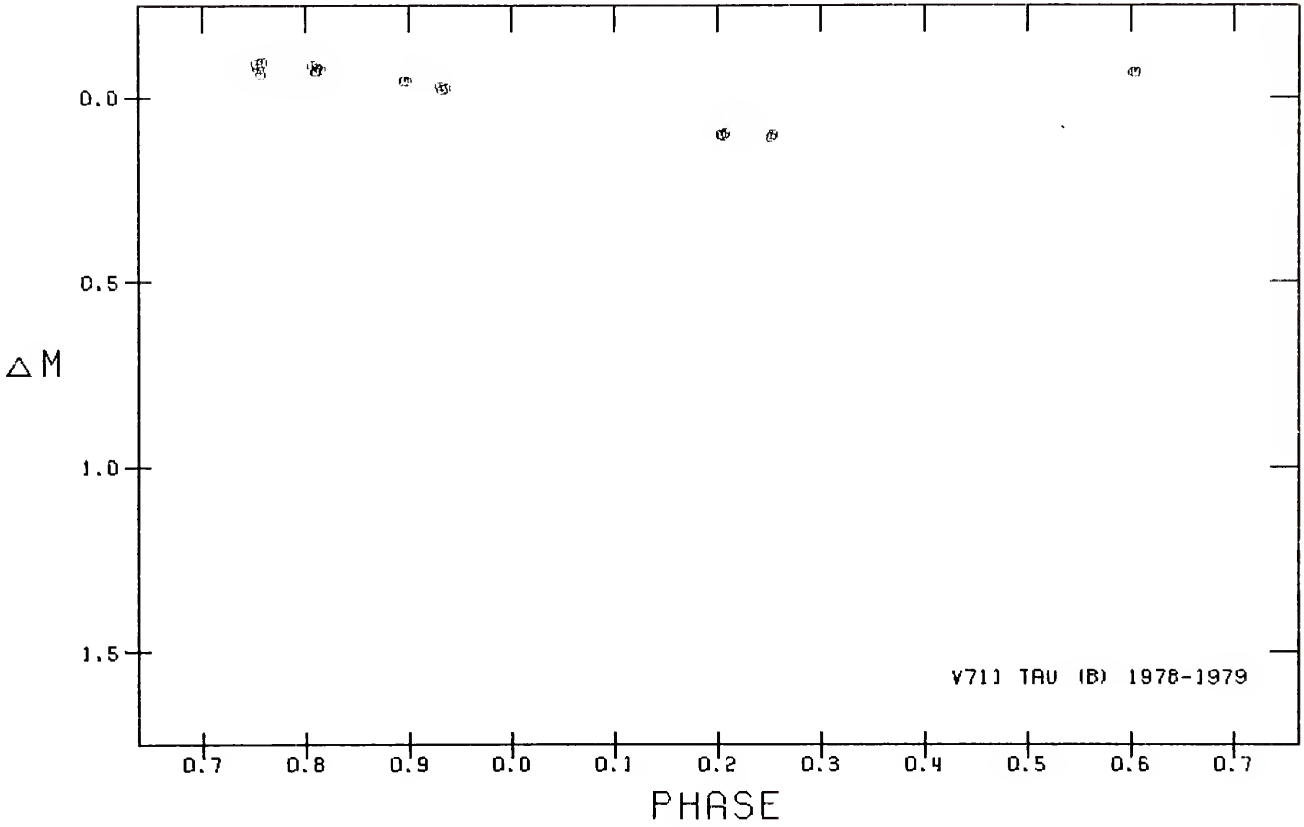

Fig. 98.-1978-1979 blue light curve for V711 Tau.

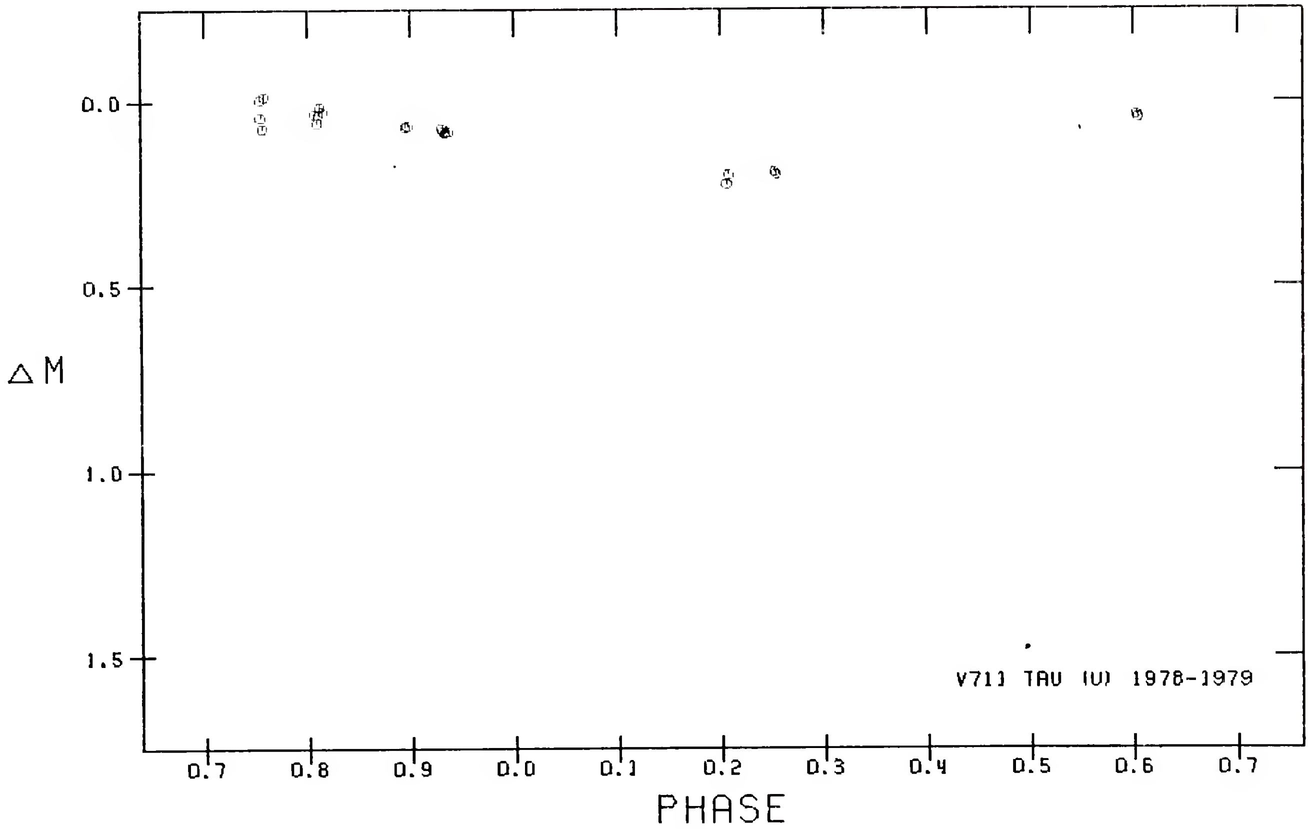

Fig. 99.-1978-1979 ultraviolet light curve for V711 Tau.

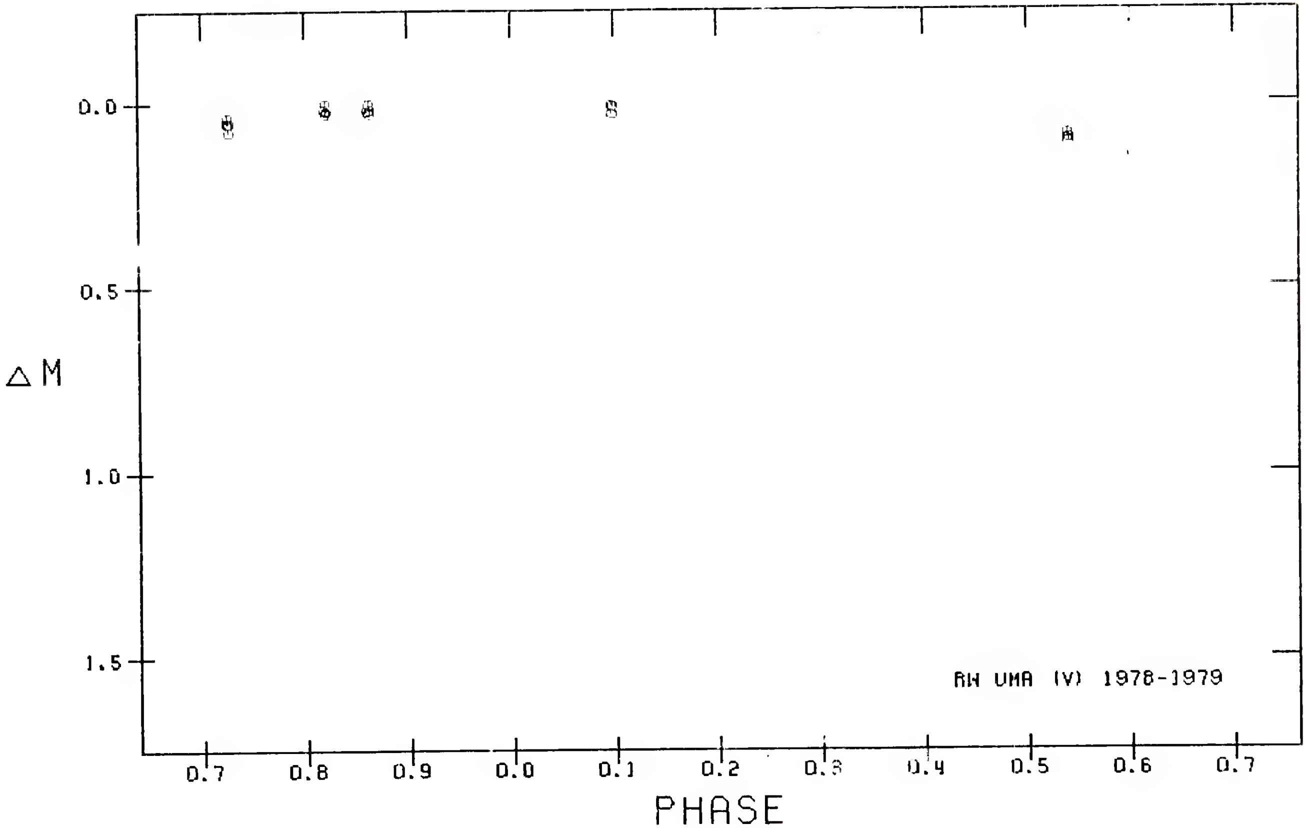

Fig. 100.-1978-1979 visual light curve for RW UMa.

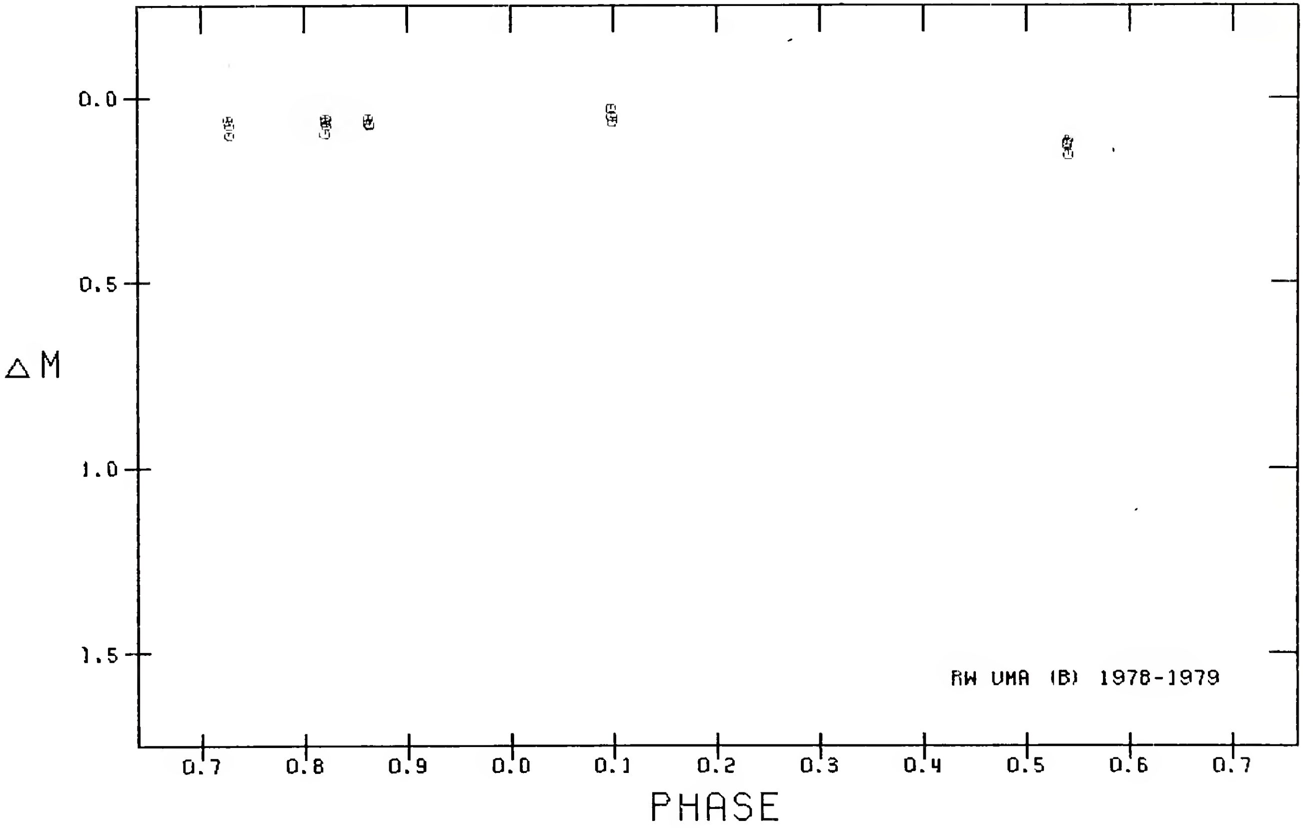

Fig. 101.-1978-1979 blue light curve for RW Uma.

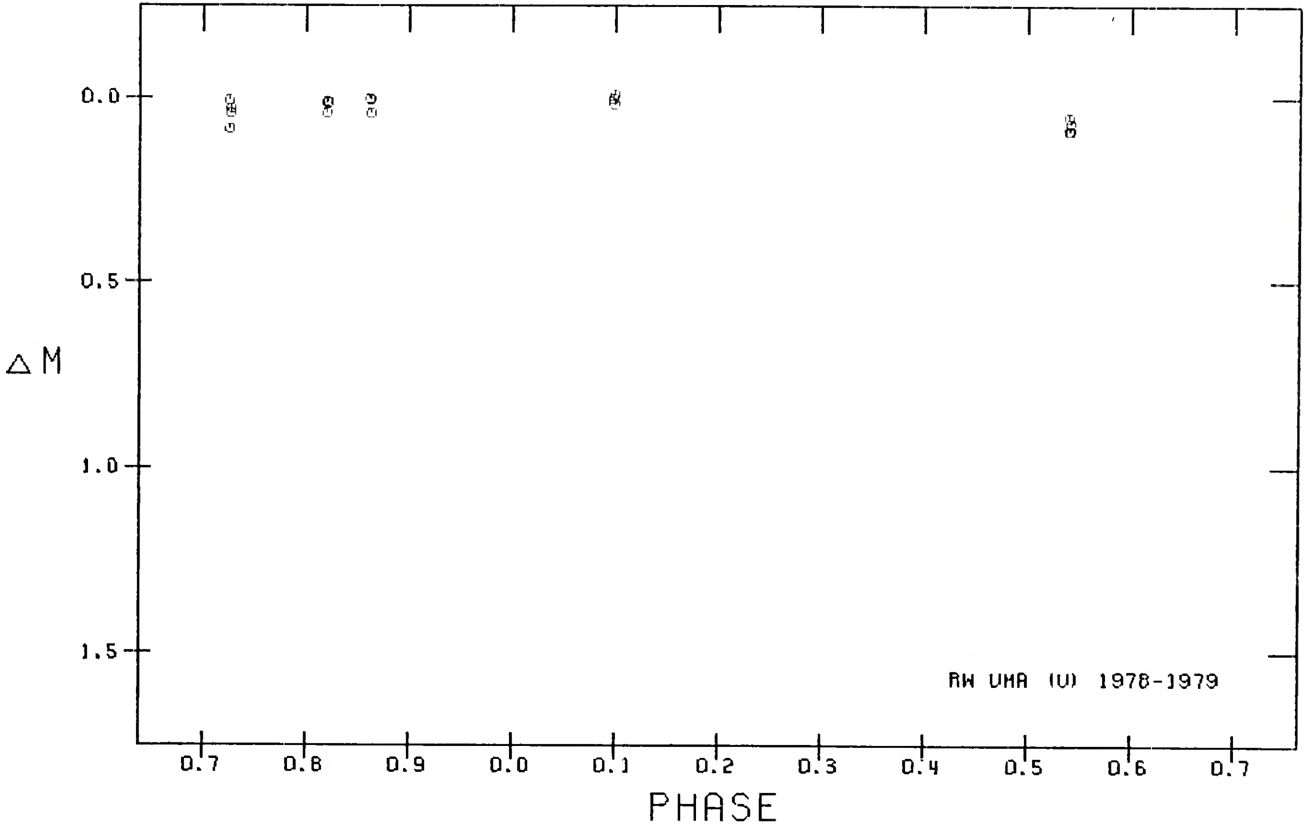

Fig. 102.-1978-1979 ultraviolet light curve for RW UMa.

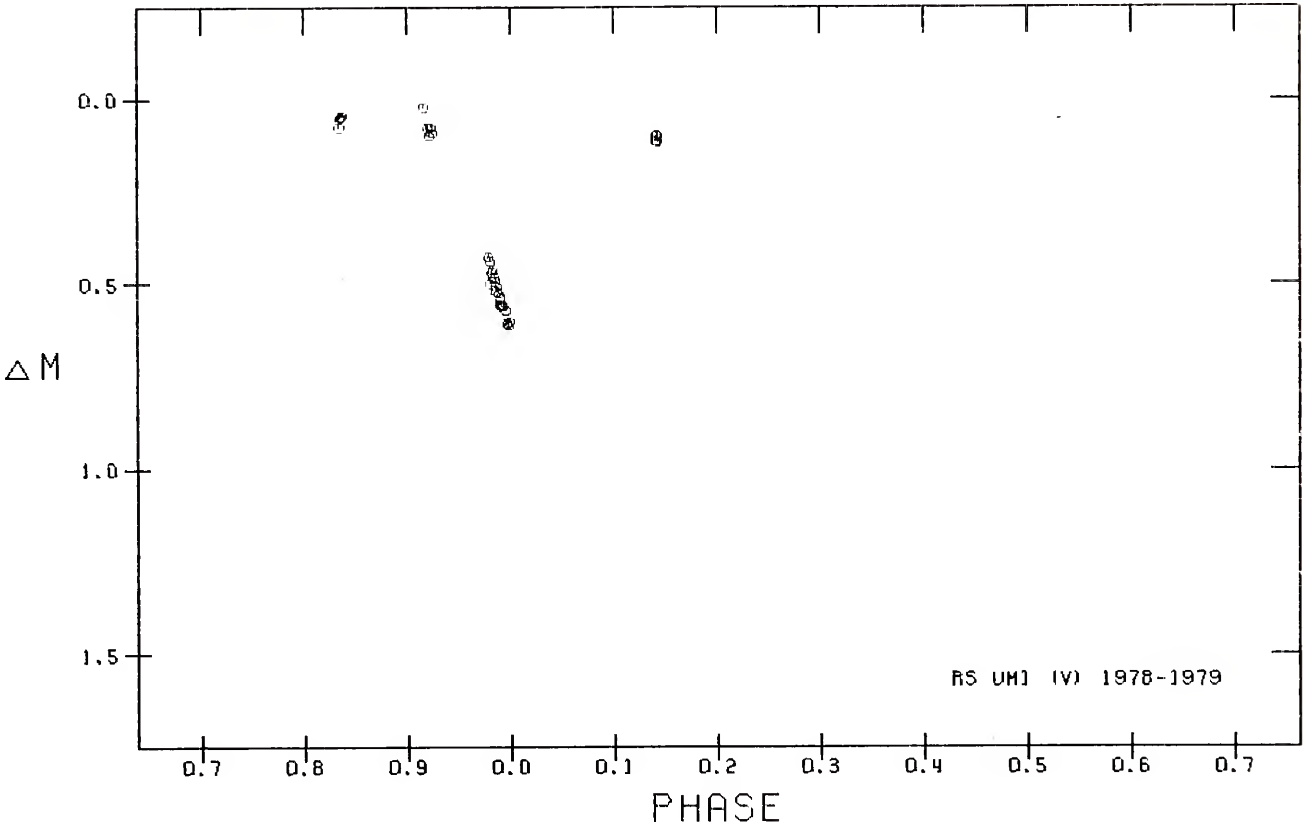

Fig. 103.-1978-1979 visual light curve for RS UMi.

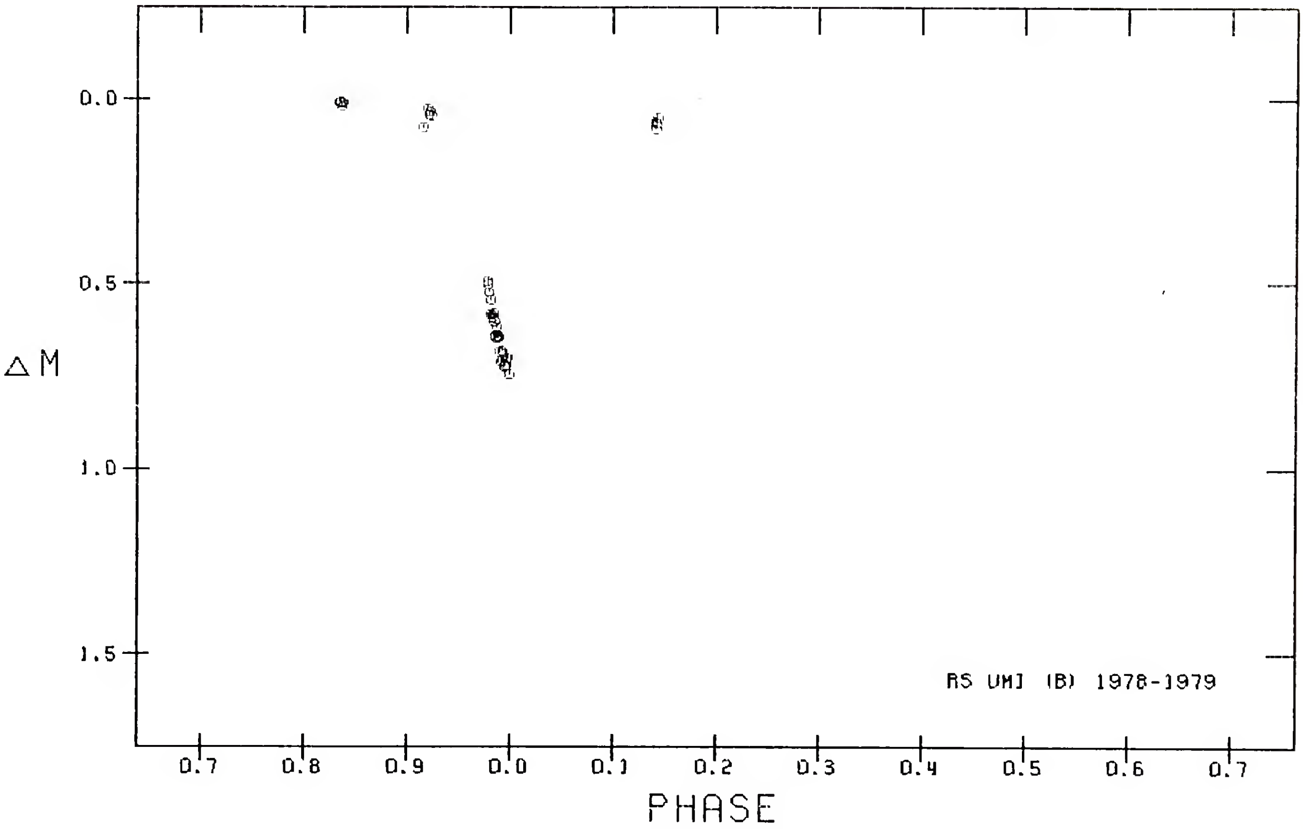

Fig. 104.-1978-1979 blue light curve for RS UMi.

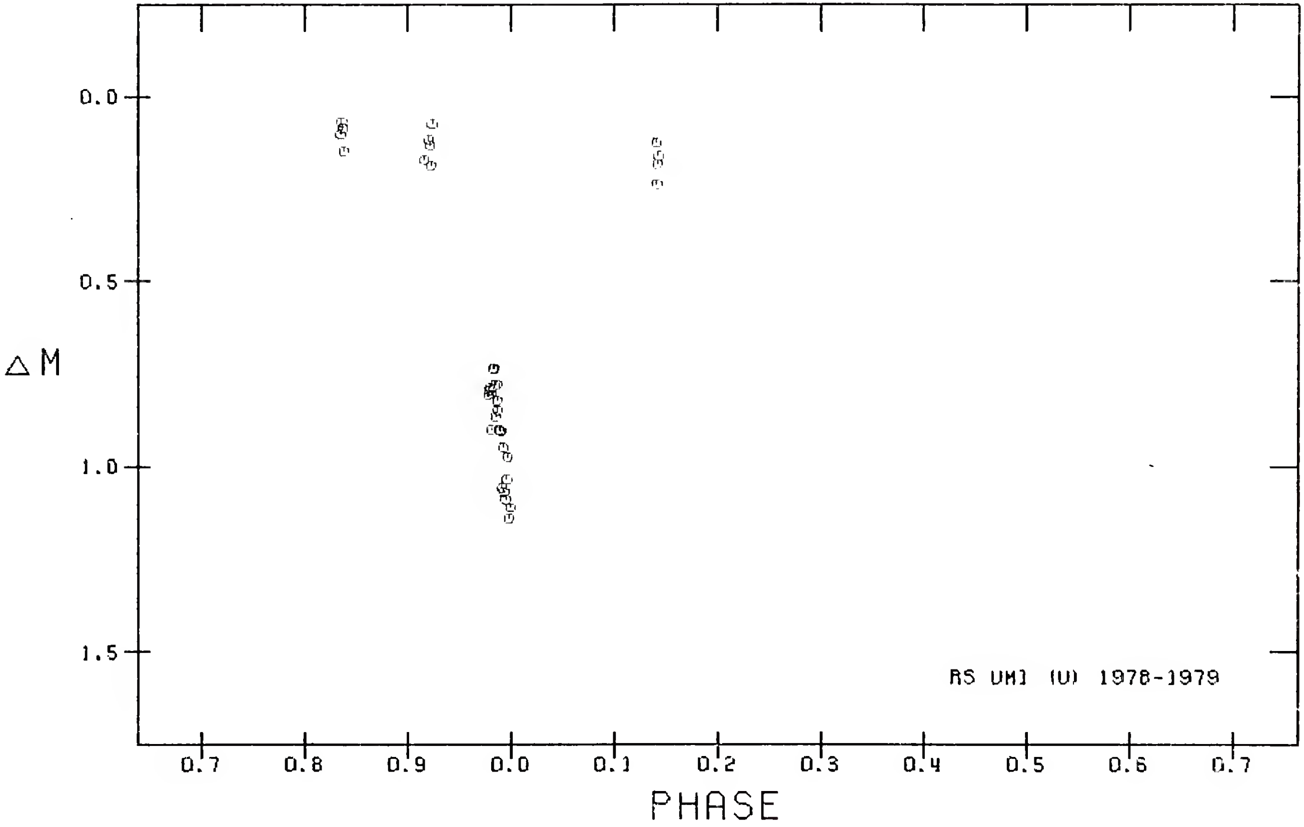

Fig. 105.–1978–1979 ultraviolet light curve for RS UMi.

APPENDIX B
DIFFERENTIAL MAGNITUDES OF OBSERVED SYSTEMS

UX ARI 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43902.61129	V	0.956	43916.62702	B	0.772
43902.61578	V	0.955	43916.63261	B	0.769
43902.62148	V	0.957	43916.63696	B	0.767
43905.62244	V	1.008	43941.57871	B	0.745
43905.62629	V	0.990	43941.58246	B	0.734
43913.62572	V	1.014	43958.54353	B	0.747
43913.62947	V	1.023	43958.54701	B	0.765
43913.63613	V	1.025	43958.55161	B	0.755
43916.62204	V	1.002	43958.55494	B	0.741
43916.62652	V	1.008	43902.61229	U	0.253
43916.63215	V	0.996	43902.61675	U	0.251
43916.63643	V	0.999	43902.62245	U	0.242
43941.57817	V	0.978	43905.62332	U	0.268
43941.58194	V	0.981	43905.62724	U	0.262
43958.54310	V	1.006	43913.62668	U	0.158
43958.54660	V	1.006	43913.63042	U	0.279
43958.55118	V	0.990	43913.63727	U	0.182
43958.55451	V	0.990	43916.62313	U	0.275
43902.61178	B	0.731	43916.62752	U	0.270
43902.61628	B	0.725	43916.63313	U	0.255
43902.62195	B	0.726	43916.63747	U	0.264
43905.62266	B	0.762	43941.57927	U	0.232
43905.62679	B	0.758	43941.58291	U	0.241
43913.62617	B	0.761	43958.54395	U	0.255
43913.62994	B	0.769	43958.54741	U	0.299
43913.63676	B	0.761	43958.55207	U	0.211
43916.62259	B	0.764	43958.55540	U	0.177

CQ AUR 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43879.79186	V	0.193	43917.77383	B	-0.427
43879.79846	V	0.200	43924.74413	B	-0.302
43879.80257	V	0.195	43924.75458	B	-0.318
43879.81316	V	0.176	43924.76118	B	-0.352
43879.82022	V	0.176	43952.64099	B	-0.198
43879.82629	V	0.175	43952.64514	B	-0.201
43879.83705	V	0.189	43952.64911	B	-0.220
43902.75627	V	0.204	43953.59372	B	-0.384
43902.76370	V	0.194	43953.60112	B	-0.401
43902.76813	V	0.189	43953.60783	B	-0.397
43902.78359	V	0.185	43953.61263	B	-0.349
43902.78896	V	0.182	43954.57537	B	-0.392
43905.70642	V	0.132	43954.58253	B	-0.382
43905.71021	V	0.130	43954.58632	B	-0.401
43905.71622	V	0.131	43958.60544	B	-0.418
43917.74653	V	0.121	43958.61014	B	-0.424
43917.75647	V	0.139	43958.61381	B	-0.443
43917.77344	V	0.111	43958.61973	B	-0.446
43924.74373	V	0.247	43960.58867	B	-0.407
43924.75415	V	0.221	43960.59212	B	-0.417
43924.76083	V	0.169	43960.59524	B	-0.419
43952.64055	V	0.332	43879.79284	U	-1.531
43952.64465	V	0.315	43879.79944	U	-1.547
43952.64862	V	0.288	43879.80355	U	-1.541
43953.59318	V	0.190	43879.81408	U	-1.527
43953.60043	V	0.194	43879.82114	U	-1.537
43953.60731	V	0.190	43879.82762	U	-1.551
43953.61212	V	0.191	43879.83839	U	-1.535
43954.57486	V	0.195	43902.75732	U	-1.377
43954.58205	V	0.180	43902.76471	U	-1.330
43954.58585	V	0.189	43902.76905	U	-1.296
43958.60502	V	0.126	43902.78451	U	-1.394
43958.60925	V	0.139	43902.78992	U	-1.338
43958.61333	V	0.120	43905.70730	U	-1.486
43958.61886	V	0.128	43905.71116	U	-1.472
43960.58825	V	0.150	43905.71719	U	-1.466
43960.59167	V	0.152	43917.74724	U	-1.420
43960.59485	V	0.151	43917.75731	U	-1.415
43879.79232	B	-0.398	43917.77419	U	-1.383
43879.79898	B	-0.381	43924.74450	U	-1.358
43879.80303	B	-0.381	43924.75495	U	-1.395
43879.81356	B	-0.397	43924.76154	U	-1.322
43879.82068	B	-0.402	43952.64144	U	-1.159
43879.82704	B	-0.366	43952.64559	U	-1.139
43879.83758	B	-0.390	43952.64958	U	-1.190
43902.75691	B	-0.381	43953.59430	U	-1.347
43902.76416	B	-0.376	43953.60171	U	-1.434
43902.76860	B	-0.369	43953.60828	U	-1.340
43902.78405	B	-0.371	43953.61320	U	-1.298
43902.78949	B	-0.373	43954.57582	U	-1.334
43905.70687	B	-0.442	43954.58301	U	-1.294
43905.71071	B	-0.448	43954.58674	U	-1.359
43905.71672	B	-0.455	43958.60589	U	-1.375
43917.74690	B	-0.468	43958.61055	U	-1.409
43917.75694	B	-0.436	43958.61425	U	-1.398

CQ AUR 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43958.62021	U	-1.480	43960.59255	U	-1.339
43960.58912	U	-1.386	43960.59571	U	-1.387

CQ AUR 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44171.80690	V	0.123	44291.65288	V	0.497
44171.80940	V	0.124	44303.54984	V	0.202
44177.86071	V	0.138	44303.55266	V	0.205
44177.86410	V	0.145	44303.55492	V	0.197
44177.86680	V	0.151	44303.56095	V	0.201
44177.87126	V	0.131	44320.59890	V	0.119
44177.87464	V	0.129	44320.60123	V	0.135
44192.79931	V	0.153	44320.60553	V	0.119
44192.80215	V	0.124	44320.60791	V	0.126
44192.80503	V	0.151	44345.57074	V	0.525
44192.80774	V	0.127	44345.57348	V	0.495
44193.78647	V	0.126	44345.57590	V	0.496
44193.78954	V	0.116	44345.57831	V	0.501
44193.79260	V	0.125	44345.58077	V	0.474
44193.79401	V	0.125	44345.58322	V	0.500
44193.79737	V	0.127	44350.57294	V	0.224
44193.80128	V	0.130	44350.57568	V	0.265
44225.83538	V	0.110	44350.57912	V	0.231
44225.83917	V	0.125	44350.58158	V	0.230
44225.84234	V	0.108	44171.80719	B	-0.445
44225.84491	V	0.109	44171.80968	B	-0.443
44225.84852	V	0.117	44177.86103	B	-0.432
44225.85098	V	0.124	44177.86439	B	-0.424
44225.85337	V	0.121	44177.86776	B	-0.426
44259.67176	V	0.304	44177.87154	B	-0.444
44259.67492	V	0.300	44177.87492	B	-0.425
44259.67742	V	0.311	44192.79959	B	-0.427
44259.68040	V	0.316	44192.80244	B	-0.437
44259.68342	V	0.329	44192.80529	B	-0.439
44259.68629	V	0.318	44192.80803	B	-0.440
44259.68919	V	0.305	44193.78671	B	-0.459
44259.69257	V	0.347	44193.78983	B	-0.424
44259.70345	V	0.355	44193.79301	B	-0.428
44274.56244	V	0.119	44193.79430	B	-0.445
44274.56489	V	0.129	44193.79847	B	-0.434
44274.56819	V	0.136	44193.80157	B	-0.450
44274.57048	V	0.141	44225.83563	B	-0.448
44276.58747	V	0.199	44225.83942	B	-0.455
44276.59033	V	0.210	44225.84258	B	-0.456
44276.59271	V	0.196	44225.84513	B	-0.465
44276.59517	V	0.180	44225.84877	B	-0.431
44277.57046	V	0.139	44225.85122	B	-0.433
44277.57382	V	0.148	44225.85361	B	-0.433
44277.57713	V	0.143	44259.67204	B	-0.237
44277.57992	V	0.124	44259.67519	B	-0.222
44277.58401	V	0.152	44259.67770	B	-0.214
44290.64212	V	0.169	44259.68066	B	-0.209
44290.64476	V	0.160	44259.68371	B	-0.205
44290.64749	V	0.190	44259.68661	B	-0.208
44290.65300	V	0.187	44259.68951	B	-0.171
44291.63575	V	0.492	44259.69286	B	-0.180
44291.63846	V	0.468	44259.70374	B	-0.166
44291.64174	V	0.492	44274.56272	B	-0.450
44291.64439	V	0.515	44274.56517	B	-0.431
44291.65030	V	0.510	44274.56847	B	-0.432

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44274.57075	B	-0.430	44193.80190	U	-1.405
44276.58776	B	-0.364	44225.83586	U	-1.435
44276.59059	B	-0.369	44225.83966	U	-1.467
44276.59299	B	-0.380	44225.84282	U	-1.469
44276.59545	B	-0.376	44225.84539	U	-1.438
44277.57074	B	-0.428	44225.84899	U	-1.421
44277.57412	B	-0.413	44225.85148	U	-1.374
44277.57742	B	-0.453	44225.85385	U	-1.375
44277.58021	B	-0.420	44259.67232	U	-1.119
44277.58430	B	-0.436	44259.67547	U	-1.162
44290.64241	B	-0.342	44259.67797	U	-1.198
44290.64505	B	-0.385	44259.68098	U	-1.201
44290.64778	B	-0.399	44259.68400	U	-1.086
44290.65050	B	-0.367	44259.68695	U	-1.041
44290.65329	B	-0.403	44259.68983	U	-1.038
44291.63603	B	0.047	44259.69322	U	-1.001
44291.63875	B	0.043	44259.70423	U	-1.058
44291.64201	B	0.060	44274.56297	U	-1.411
44291.64471	B	0.071	44274.56546	U	-1.376
44291.65057	B	0.108	44274.56874	U	-1.400
44291.65317	B	0.127	44274.57102	U	-1.402
44303.55010	B	-0.366	44276.58803	U	-1.443
44303.55294	B	-0.362	44276.59087	U	-1.453
44303.55522	B	-0.358	44276.59325	U	-1.377
44303.56121	B	-0.350	44276.59574	U	-1.407
44320.59517	B	-0.433	44277.57103	U	-1.367
44320.60152	B	-0.403	44277.57440	U	-1.376
44320.60580	B	-0.448	44277.57768	U	-1.415
44320.60819	B	-0.434	44277.58050	U	-1.326
44345.57101	B	0.104	44277.58458	U	-1.367
44345.57375	B	0.085	44290.64270	U	-1.344
44345.57617	B	0.089	44290.64536	U	-1.293
44345.57858	B	0.114	44290.64806	U	-1.206
44345.58105	B	0.071	44290.65080	U	-1.274
44345.58348	B	0.090	44290.65360	U	-1.293
44350.57325	B	-0.352	44291.63631	U	-0.700
44350.57595	B	-0.337	44291.63905	U	-0.682
44350.57938	B	-0.314	44291.64230	U	-0.626
44350.58185	B	-0.303	44291.64501	U	-0.659
44171.80746	U	-1.439	44291.65082	U	-0.659
44171.80995	U	-1.420	44291.65345	U	-0.621
44177.86134	U	-1.306	44303.55037	U	-1.275
44177.86468	U	-1.387	44303.55320	U	-1.271
44177.86816	U	-1.457	44303.55551	U	-1.349
44177.87182	U	-1.425	44303.56147	U	-1.373
44177.87518	U	-1.419	44320.59943	U	-1.484
44192.79985	U	-1.446	44320.60182	U	-1.275
44192.80272	U	-1.461	44320.60607	U	-1.387
44192.80569	U	-1.455	44320.60845	U	-1.405
44192.80833	U	-1.377	44345.57128	U	-0.674
44193.78695	U	-1.413	44345.57400	U	-0.617
44193.79018	U	-1.334	44345.57645	U	-0.642
44193.79330	U	-1.395	44345.57884	U	-0.688
44193.79461	U	-1.362	44345.58134	U	-0.681
44193.79897	U	-1.390	44345.58377	U	-0.659

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44350.57355	U	-1.311	44350.57965	U	-1.192
44350.57622	U	-1.382	44350.58217	U	-1.260

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44344.56630	V	0.864	44344.60547	B	0.917
44344.56907	V	0.857	44344.60826	B	0.910
44344.57185	V	0.830	44344.61103	B	0.928
44344.57476	V	0.887	44344.61380	B	0.958
44344.57742	V	0.853	44344.61658	B	0.889
44344.58018	V	0.853	44344.61936	B	0.878
44344.58296	V	0.847	44344.62214	B	0.885
44344.58576	V	0.843	44344.62494	B	0.868
44344.58852	V	0.859	44371.57429	B	0.873
44344.59131	V	0.827	44371.57686	B	0.881
44344.59408	V	0.836	44371.58002	B	0.897
44344.59685	V	0.849	44371.58285	B	0.886
44344.59963	V	0.853	44371.58925	B	0.900
44344.60240	V	0.849	44371.59164	B	0.895
44344.60518	V	0.850	44344.56684	U	1.019
44344.60801	V	0.842	44344.56965	U	0.941
44344.61074	V	0.830	44344.57243	U	1.075
44344.61351	V	0.868	44344.57530	U	1.039
44344.61629	V	0.819	44344.57799	U	0.978
44344.61907	V	0.813	44344.58076	U	0.934
44344.62185	V	0.866	44344.58354	U	0.955
44344.62469	V	0.816	44344.58632	U	0.971
44371.57403	V	0.780	44344.58910	U	0.977
44371.57656	V	0.804	44344.59187	U	0.973
44371.57974	V	0.799	44344.59465	U	0.996
44371.58259	V	0.823	44344.59743	U	0.947
44371.58899	V	0.828	44344.60021	U	0.968
44371.59136	V	0.795	44344.60297	U	0.914
44344.56659	B	0.911	44344.60576	U	0.976
44344.56934	B	0.942	44344.60854	U	1.019
44344.57214	B	0.947	44344.61132	U	0.978
44344.57503	B	0.949	44344.61409	U	1.100
44344.57771	B	0.907	44344.61687	U	0.962
44344.58047	B	0.905	44344.61965	U	1.032
44344.58325	B	0.916	44344.62243	U	0.952
44344.58604	B	0.921	44344.62523	U	0.990
44344.58881	B	0.913	44371.57455	U	0.980
44344.59158	B	0.908	44371.57712	U	0.983
44344.59436	B	0.910	44371.58029	U	0.939
44344.59714	B	0.894	44371.58311	U	0.984
44344.59992	B	0.928	44371.58950	U	1.001
44344.60269	B	0.908	44371.59192	U	0.996

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43848.88601	V	-0.243	43883.79418	V	0.763
43848.89134	V	-0.252	43883.79875	V	0.769
43848.89857	V	-0.256	43883.80147	V	0.772
43848.90308	V	-0.253	43883.80738	V	0.753
43848.90783	V	-0.262	43883.81033	V	0.763
43848.92056	V	-0.264	43883.82040	V	0.759
43848.92542	V	-0.253	43883.82324	V	0.749
43848.93393	V	-0.252	43883.82873	V	0.744
43848.93868	V	-0.245	43883.83169	V	0.753
43848.94655	V	-0.274	43883.83689	V	0.765
43855.88064	V	-0.360	43883.83996	V	0.754
43855.88533	V	-0.361	43883.84500	V	0.762
43855.89141	V	-0.362	43883.84934	V	0.733
43855.90680	V	-0.351	43883.85362	V	0.742
43855.91253	V	-0.362	43883.85651	V	0.764
43855.91838	V	-0.359	43883.86329	V	0.754
43855.92405	V	-0.351	43883.86670	V	0.737
43855.92989	V	-0.358	43883.87388	V	0.716
43855.93562	V	-0.370	43889.84600	V	-0.380
43855.94176	V	-0.370	43889.85116	V	-0.388
43855.95137	V	-0.361	43889.85521	V	-0.397
43855.95773	V	-0.361	43889.86383	V	-0.403
43855.96427	V	-0.363	43889.86771	V	-0.403
43882.78786	V	-0.248	43889.87645	V	-0.382
43882.79486	V	-0.231	43902.89491	V	0.817
43882.80094	V	-0.253	43902.89887	V	0.824
43882.81124	V	-0.249	43902.90414	V	0.818
43882.81691	V	-0.251	43902.90849	V	0.816
43882.82391	V	-0.258	43902.91384	V	0.828
43882.83167	V	-0.255	43902.92109	V	0.816
43882.84353	V	-0.234	43902.92502	V	0.825
43882.84701	V	-0.254	43902.93075	V	0.813
43882.85158	V	-0.255	43902.93692	V	0.821
43882.85586	V	-0.249	43902.94168	V	0.823
43882.89620	V	-0.260	43902.94658	V	0.819
43882.89944	V	-0.259	43902.95136	V	0.820
43882.90615	V	-0.260	43902.95586	V	0.806
43882.90940	V	-0.257	43902.96170	V	0.809
43882.91970	V	-0.264	43902.96762	V	0.820
43882.92508	V	-0.261	43905.80053	V	-0.280
43882.92994	V	-0.246	43905.80448	V	-0.278
43882.93318	V	-0.243	43905.80903	V	-0.285
43882.94256	V	-0.254	43905.81695	V	-0.287
43882.94672	V	-0.261	43905.85213	V	-0.273
43882.95107	V	-0.266	43913.77742	V	-0.385
43882.95795	V	-0.261	43913.78093	V	-0.382
43882.96316	V	-0.260	43913.78381	V	-0.373
43883.76501	V	0.784	43913.78751	V	-0.379
43883.76959	V	0.763	43913.79600	V	-0.388
43883.77236	V	0.772	43913.80073	V	-0.364
43883.77636	V	0.777	43913.80750	V	-0.399
43883.77919	V	0.784	43913.81141	V	-0.397
43883.78452	V	0.787	43913.81795	V	-0.336
43883.78735	V	0.780	43916.76197	V	-0.257
43883.79135	V	0.769	43916.76831	V	-0.258

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43916.77458	V	-0.251	43941.70070	V	-0.366
43916.78022	V	-0.264	43941.70456	V	-0.361
43916.78562	V	-0.255	43941.70816	V	-0.368
43916.79126	V	-0.248	43941.71210	V	-0.370
43916.80171	V	-0.258	43941.71602	V	-0.367
43916.80726	V	-0.264	43941.72239	V	-0.372
43916.81263	V	-0.260	43941.72853	V	-0.367
43916.81827	V	-0.273	43941.73948	V	-0.358
43916.82472	V	-0.265	43941.74373	V	-0.361
43916.83630	V	-0.266	43941.75078	V	-0.359
43916.84832	V	-0.263	43941.75488	V	-0.361
43916.86507	V	-0.278	43941.75939	V	-0.369
43916.87879	V	-0.261	43941.76328	V	-0.371
43916.88276	V	-0.265	43941.76725	V	-0.359
43916.88825	V	-0.257	43941.77230	V	-0.366
43916.89235	V	-0.271	43941.77615	V	-0.362
43916.89532	V	-0.267	43941.78013	V	-0.368
43916.90509	V	-0.260	43941.78603	V	-0.364
43916.90942	V	-0.262	43941.78983	V	-0.373
43916.91521	V	-0.271	43941.79749	V	-0.370
43916.91964	V	-0.274	43941.80125	V	-0.361
43916.92365	V	-0.272	43941.80732	V	-0.377
43916.92928	V	-0.277	43941.81090	V	-0.366
43916.93476	V	-0.269	43941.81498	V	-0.370
43916.93910	V	-0.268	43941.82070	V	-0.368
43916.94447	V	-0.268	43941.83286	V	-0.372
43916.95070	V	-0.286	43941.83708	V	-0.365
43916.95629	V	-0.275	43941.84261	V	-0.368
43916.96131	V	-0.281	43941.84792	V	-0.379
43916.96630	V	-0.270	43941.85310	V	-0.387
43916.97174	V	-0.264	43941.85866	V	-0.374
43940.66249	V	-0.257	43941.86450	V	-0.375
43940.66649	V	-0.269	43941.87024	V	-0.376
43940.67184	V	-0.263	43941.87697	V	-0.382
43940.67577	V	-0.243	43942.72964	V	-0.377
43940.68107	V	-0.257	43942.73449	V	-0.401
43940.68519	V	-0.257	43942.74049	V	-0.400
43940.69041	V	-0.264	43942.76266	V	-0.390
43940.69452	V	-0.258	43942.73008	B	-0.260
43940.70098	V	-0.251	43942.73494	B	-0.268
43940.70526	V	-0.250	43942.74091	B	-0.258
43940.71087	V	-0.251	43942.76311	B	-0.268
43940.71478	V	-0.258	43942.73048	U	-0.131
43940.71855	V	-0.258	43942.73934	U	-0.149
43940.72538	V	-0.260	43942.74135	U	-0.153
43940.73618	V	-0.260	43942.76353	U	-0.161
43940.74399	V	-0.260	43942.77005	U	-0.073
43940.74788	V	-0.257	43942.80505	U	-0.026
43940.75215	V	-0.236	43946.67656	V	-0.388
43941.66123	V	-0.359	43946.67827	V	-0.403
43941.66506	V	-0.354	43946.67975	U	-0.140
43941.66889	V	-0.347	43952.74137	V	-0.367
43941.67380	V	-0.353	43952.74606	V	-0.322
43941.69074	V	-0.367	43952.75088	V	-0.361
43941.69481	V	-0.359	43952.75681	V	-0.343

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43952.76190	V	-0.367	43958.74275	V	-0.281
43952.76790	V	-0.361	43958.74632	V	-0.274
43952.77313	V	-0.366	43958.74995	V	-0.273
43952.77901	V	-0.363	43958.75341	V	-0.266
43952.78517	V	-0.358	43958.75708	V	-0.277
43952.79048	V	-0.354	43958.76073	V	-0.266
43952.79647	V	-0.372	43958.76890	V	-0.270
43952.80277	V	-0.353	43958.77246	V	-0.255
43952.81374	V	-0.350	43958.84776	V	-0.262
43952.82224	V	-0.346	43958.85134	V	-0.263
43952.83375	V	-0.355	43958.85476	V	-0.276
43952.83765	V	-0.350	43958.85849	V	-0.277
43952.84293	V	-0.363	43958.86201	V	-0.246
43952.84700	V	-0.360	43958.86308	V	-0.248
43952.85093	V	-0.354	43958.86657	V	-0.249
43952.85637	V	-0.364	43958.87301	V	-0.271
43952.86077	V	-0.359	43958.87634	V	-0.255
43952.86480	V	-0.366	43958.88125	V	-0.260
43952.87004	V	-0.346	43958.88451	V	-0.256
43952.87384	V	-0.349	43958.88775	V	-0.262
43952.87903	V	-0.359	43958.89114	V	-0.255
43952.88447	V	-0.360	43958.89470	V	-0.262
43952.88831	V	-0.349	43958.90141	V	-0.282
43952.89209	V	-0.358	43958.90497	V	-0.244
43952.89618	V	-0.355	43958.90840	V	-0.247
43952.90006	V	-0.354	43958.91258	V	-0.248
43952.90592	V	-0.339	43958.91580	V	-0.247
43952.91020	V	-0.348	43958.91908	V	-0.264
43952.91585	V	-0.359	43958.92375	V	-0.272
43952.91930	V	-0.350	43958.92908	V	-0.267
43952.92518	V	-0.321	43958.93425	V	-0.269
43952.93069	V	-0.336	43958.93894	V	-0.264
43952.93568	V	-0.345	43980.65494	V	-0.369
43953.77732	V	-0.280	43980.69891	V	-0.409
43953.78290	V	-0.274	43980.70489	V	-0.425
43953.78850	V	-0.276	43980.71223	V	-0.375
43953.79216	V	-0.279	43980.71753	V	-0.391
43953.79911	V	-0.269	43980.72586	V	-0.408
43953.80429	V	-0.267	43980.73607	V	-0.423
43953.81234	V	-0.275	43980.74030	V	-0.415
43953.81613	V	-0.272	43980.74588	V	-0.392
43953.82510	V	-0.273	43980.74968	V	-0.393
43953.82899	V	-0.257	43980.75490	V	-0.389
43953.83506	V	-0.274	43980.75927	V	-0.398
43953.83901	V	-0.279	43980.76536	V	-0.369
43953.84301	V	-0.271	43980.77121	V	-0.390
43953.84895	V	-0.278	43980.77901	V	-0.391
43953.85294	V	-0.271	43980.78303	V	-0.408
43953.85865	V	-0.272	43980.78899	V	-0.383
43953.86388	V	-0.277	43980.80607	V	-0.386
43953.86821	V	-0.271	43980.81192	V	-0.396
43953.87216	V	-0.256	43980.81697	V	-0.413
43958.73238	V	-0.279	43980.82960	V	-0.389
43958.73586	V	-0.270	43980.83399	V	-0.390
43958.73918	V	-0.270	43980.84035	V	-0.397

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43980.84448	V	-0.388	44011.66530	V	-0.252
43980.85691	V	-0.394	44011.67763	V	-0.259
43980.86299	V	-0.384	44011.68174	V	-0.258
43980.86888	V	-0.383	44011.68544	V	-0.259
43980.87286	V	-0.388	44011.73441	V	-0.257
43980.87707	V	-0.378	44011.73837	V	-0.241
44010.60115	V	-0.328	44011.74190	V	-0.258
44010.60640	V	-0.332	44011.74670	V	-0.250
44010.61029	V	-0.334	44011.75114	V	-0.266
44010.61918	V	-0.331	44011.75582	V	-0.257
44010.62268	V	-0.331	44011.75893	V	-0.253
44010.63010	V	-0.332	44011.76740	V	-0.267
44010.63332	V	-0.313	44011.77083	V	-0.256
44010.65578	V	-0.311	44011.77428	V	-0.254
44010.66003	V	-0.318	44011.77983	V	-0.256
44010.66573	V	-0.329	44011.78317	V	-0.261
44010.67904	V	-0.318	44011.78657	V	-0.276
44010.68247	V	-0.320	44011.79262	V	-0.266
44010.69008	V	-0.307	44011.79641	V	-0.263
44010.69377	V	-0.309	44011.80006	V	-0.251
44010.70026	V	-0.306	44011.80363	V	-0.251
44010.70652	V	-0.322	44011.80748	V	-0.257
44010.71137	V	-0.315	43848.88665	B	-0.141
44010.73437	V	-0.297	43848.89475	B	-0.136
44010.73959	V	-0.295	43848.89915	B	-0.143
44010.74477	V	-0.290	43848.90366	B	-0.153
44010.74966	V	-0.271	43848.90916	B	-0.156
44010.75448	V	-0.271	43848.92120	B	-0.164
44010.75924	V	-0.277	43848.92606	B	-0.155
44010.76501	V	-0.297	43848.93451	B	-0.153
44010.77046	V	-0.265	43848.93943	B	-0.164
44010.77441	V	-0.272	43848.94701	B	-0.150
44010.77943	V	-0.259	43855.88134	B	-0.257
44010.78820	V	-0.281	43855.88585	B	-0.257
44010.79339	V	-0.253	43855.89187	B	-0.263
44010.80539	V	-0.260	43855.90750	B	-0.262
44010.80964	V	-0.275	43855.91311	B	-0.257
44010.81333	V	-0.260	43855.91884	B	-0.260
44011.57760	V	-0.262	43855.92451	B	-0.252
44011.58414	V	-0.268	43855.93047	B	-0.257
44011.58810	V	-0.258	43855.93626	B	-0.257
44011.59213	V	-0.257	43855.94239	B	-0.256
44011.59616	V	-0.257	43855.95177	B	-0.245
44011.59990	V	-0.264	43855.95819	B	-0.256
44011.60487	V	-0.256	43855.96468	B	-0.266
44011.60861	V	-0.250	43882.78826	B	-0.113
44011.61239	V	-0.267	43882.79532	B	-0.140
44011.61717	V	-0.259	43882.80534	B	-0.153
44011.62109	V	-0.260	43882.81176	B	-0.150
44011.62488	V	-0.262	43882.81738	B	-0.142
44011.62899	V	-0.256	43882.82849	B	-0.148
44011.64746	V	-0.260	43882.83208	B	-0.157
44011.65333	V	-0.259	43882.84400	B	-0.137
44011.65706	V	-0.253	43882.84741	B	-0.139
44011.66118	V	-0.261	43882.85268	B	-0.154

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43882.85632	B	-0.137	43902.94216	B	1.286
43882.85661	B	-0.161	43902.94705	B	1.311
43882.89985	B	-0.159	43902.95181	B	1.287
43882.90668	B	-0.155	43902.95634	B	1.293
43882.90980	B	-0.149	43902.96217	B	1.289
43882.92016	B	-0.145	43902.96805	B	1.278
43882.92548	B	-0.149	43905.80105	B	-0.166
43882.93040	B	-0.155	43905.80531	B	-0.171
43882.93365	B	-0.145	43905.80960	B	-0.168
43882.94302	B	-0.157	43905.81737	B	-0.173
43882.94719	B	-0.160	43913.77785	B	-0.260
43882.95153	B	-0.147	43913.78138	B	-0.263
43882.95842	B	-0.129	43913.78421	B	-0.248
43882.96362	B	-0.145	43913.78793	B	-0.269
43883.76542	B	1.210	43913.79659	B	-0.280
43883.76999	B	1.208	43913.80126	B	-0.233
43883.77277	B	1.223	43913.80824	B	-0.278
43883.77676	B	1.220	43913.81164	B	-0.268
43883.77966	B	1.216	43913.81839	B	-0.214
43883.78498	B	1.215	43916.76246	B	-0.132
43883.78782	B	1.203	43916.76874	B	-0.147
43883.79181	B	1.210	43916.77511	B	-0.152
43883.79459	B	1.230	43916.78071	B	-0.155
43883.79916	B	1.214	43916.78608	B	-0.144
43883.80194	B	1.208	43916.79169	B	-0.153
43883.80778	B	1.226	43916.80218	B	-0.150
43883.81073	B	1.223	43916.80771	B	-0.150
43883.82081	B	1.206	43916.81308	B	-0.154
43883.82364	B	1.221	43916.81872	B	-0.154
43883.82914	B	1.200	43916.82515	B	-0.161
43883.83221	B	1.214	43916.83674	B	-0.149
43883.83730	B	1.212	43916.84878	B	-0.149
43883.84042	B	1.219	43916.86559	B	-0.157
43883.84546	B	1.219	43916.87926	B	-0.161
43883.84644	B	1.221	43916.88327	B	-0.153
43883.84974	B	1.212	43916.88871	B	-0.149
43883.85408	B	1.206	43916.89283	B	-0.154
43883.85698	B	1.213	43916.89978	B	-0.154
43883.86369	B	1.202	43916.90554	B	-0.157
43883.87428	B	1.167	43916.90993	B	-0.152
43889.84647	B	-0.259	43916.91566	B	-0.153
43889.85162	B	-0.249	43916.92012	B	-0.160
43889.85561	B	-0.261	43916.92412	B	-0.162
43889.86423	B	-0.271	43916.92978	B	-0.150
43889.86811	B	-0.270	43916.93522	B	-0.158
43889.87691	B	-0.256	43916.93958	B	-0.152
43902.89543	B	1.284	43916.94499	B	-0.153
43902.89933	B	1.304	43916.95114	B	-0.163
43902.90527	B	1.313	43916.95675	B	-0.149
43902.90889	B	1.310	43916.96177	B	-0.166
43902.91433	B	1.306	43916.96670	B	-0.159
43902.92157	B	1.301	43916.97219	B	-0.172
43902.92543	B	1.294	43940.66296	B	-0.161
43902.93122	B	1.293	43940.66702	B	-0.166
43902.93736	B	1.281	43940.67229	B	-0.142

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43940.67625	B	-0.147	43946.67765	B	-0.296
43940.68157	B	-0.155	43952.74180	B	-0.270
43940.68569	B	-0.150	43952.74646	B	-0.235
43940.69091	B	-0.153	43952.75130	B	-0.245
43940.69501	B	-0.157	43952.75727	B	-0.198
43940.70149	B	-0.132	43952.76233	B	-0.242
43940.70612	B	-0.146	43952.76831	B	-0.258
43940.71145	B	-0.146	43952.77363	B	-0.244
43940.71529	B	-0.153	43952.77948	B	-0.246
43940.71906	B	-0.155	43952.78557	B	-0.187
43940.72636	B	-0.163	43952.79171	B	-0.236
43940.73683	B	-0.160	43952.79694	B	-0.251
43940.74449	B	-0.149	43952.80321	B	-0.223
43940.74844	B	-0.150	43952.81433	B	-0.219
43940.75260	B	-0.147	43952.82277	B	-0.223
43941.66173	B	-0.240	43952.83422	B	-0.234
43941.66553	B	-0.241	43952.83812	B	-0.253
43941.66933	B	-0.227	43952.84336	B	-0.257
43941.67433	B	-0.242	43952.84749	B	-0.229
43941.69121	B	-0.249	43952.85138	B	-0.225
43941.69603	B	-0.237	43952.85684	B	-0.241
43941.70125	B	-0.252	43952.86118	B	-0.236
43941.70506	B	-0.245	43952.86524	B	-0.232
43941.70874	B	-0.238	43952.87049	B	-0.233
43941.71267	B	-0.254	43952.87426	B	-0.230
43941.71704	B	-0.247	43952.87953	B	-0.228
43941.72301	B	-0.245	43952.88498	B	-0.226
43941.72909	B	-0.233	43952.88887	B	-0.223
43941.74007	B	-0.233	43952.89289	B	-0.238
43941.74488	B	-0.247	43952.89669	B	-0.238
43941.75129	B	-0.233	43952.90051	B	-0.232
43941.75534	B	-0.236	43952.90637	B	-0.221
43941.75991	B	-0.242	43952.91068	B	-0.215
43941.76375	B	-0.243	43952.91636	B	-0.238
43941.76777	B	-0.243	43952.91702	B	-0.221
43941.77278	B	-0.242	43952.92601	B	-0.203
43941.77660	B	-0.253	43952.93117	B	-0.174
43941.78069	B	-0.249	43952.93609	B	-0.211
43941.78653	B	-0.235	43953.77776	B	-0.171
43941.79027	B	-0.241	43953.78336	B	-0.171
43941.79799	B	-0.242	43953.78895	B	-0.180
43941.80171	B	-0.233	43953.79261	B	-0.168
43941.80774	B	-0.244	43953.79959	B	-0.168
43941.81138	B	-0.238	43953.80738	B	-0.166
43941.81542	B	-0.242	43953.81283	B	-0.162
43941.82120	B	-0.247	43953.81660	B	-0.151
43941.83337	B	-0.263	43953.82557	B	-0.163
43941.83753	B	-0.248	43953.82950	B	-0.169
43941.84306	B	-0.241	43953.83562	B	-0.158
43941.84837	B	-0.248	43953.83952	B	-0.170
43941.85357	B	-0.246	43953.84355	B	-0.165
43941.85915	B	-0.242	43953.84945	B	-0.164
43941.86505	B	-0.258	43953.85344	B	-0.158
43941.87069	B	-0.254	43953.85909	B	-0.158
43941.87748	B	-0.277	43953.86439	B	-0.171

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43953.86877	B	-0.161	43980.81750	B	-0.290
43953.87272	B	-0.153	43980.83008	B	-0.260
43958.73281	B	-0.167	43980.83447	B	-0.267
43958.73627	B	-0.162	43980.84095	B	-0.263
43958.73958	B	-0.160	43980.84498	B	-0.254
43958.74324	B	-0.160	43980.85753	B	-0.257
43958.75038	B	-0.154	43980.86348	B	-0.271
43958.75385	B	-0.159	43980.86947	B	-0.255
43958.75752	B	-0.159	43980.87347	B	-0.271
43958.76125	B	-0.156	43980.87804	B	-0.265
43958.76929	B	-0.160	44010.60160	B	-0.198
43958.77295	B	-0.147	44010.60683	B	-0.207
43958.84819	B	-0.159	44010.61074	B	-0.203
43958.85176	B	-0.148	44010.61619	B	-0.210
43958.85555	B	-0.165	44010.61958	B	-0.214
43958.85892	B	-0.158	44010.62308	B	-0.198
43958.86355	B	-0.148	44010.63051	B	-0.214
43958.86712	B	-0.147	44010.63399	B	-0.192
43958.87344	B	-0.157	44010.65618	B	-0.200
43958.87679	B	-0.141	44010.65718	B	-0.204
43958.88175	B	-0.155	44010.66213	B	-0.207
43958.88494	B	-0.149	44010.66613	B	-0.200
43958.88817	B	-0.162	44010.67946	B	-0.202
43958.89155	B	-0.159	44010.68292	B	-0.188
43958.89514	B	-0.147	44010.69049	B	-0.183
43958.90186	B	-0.154	44010.69418	B	-0.180
43958.90560	B	-0.144	44010.70071	B	-0.175
43958.90889	B	-0.150	44010.70695	B	-0.202
43958.91300	B	-0.153	44010.71181	B	-0.189
43958.91621	B	-0.159	44010.73487	B	-0.194
43958.91951	B	-0.161	44010.74000	B	-0.190
43958.92419	B	-0.152	44010.74523	B	-0.251
43958.92949	B	-0.158	44010.75019	B	-0.204
43958.93467	B	-0.164	44010.75496	B	-0.157
43958.93935	B	-0.168	44010.75975	B	-0.175
43980.62741	B	-0.251	44010.76599	B	-0.162
43980.65642	B	-0.270	44010.77102	B	-0.156
43980.69934	B	-0.304	44010.77496	B	-0.169
43980.70541	B	-0.297	44010.78078	B	-0.176
43980.71268	B	-0.248	44010.78861	B	-0.198
43980.71828	B	-0.238	44010.79390	B	-0.197
43980.72632	B	-0.291	44010.80580	B	-0.138
43980.73651	B	-0.352	44010.81028	B	-0.170
43980.74095	B	-0.317	44010.81377	B	-0.161
43980.74637	B	-0.273	44011.57811	B	-0.155
43980.75022	B	-0.280	44011.58466	B	-0.153
43980.75538	B	-0.269	44011.58871	B	-0.150
43980.75977	B	-0.260	44011.59258	B	-0.156
43980.76589	B	-0.249	44011.59663	B	-0.159
43980.77177	B	-0.266	44011.60044	B	-0.155
43980.77946	B	-0.264	44011.60534	B	-0.149
43980.78354	B	-0.304	44011.60908	B	-0.148
43980.78949	B	-0.303	44011.61289	B	-0.148
43980.80691	B	-0.278	44011.61769	B	-0.154
43980.81245	B	-0.291	44011.62166	B	-0.158

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44011.62538	B	-0.151	43882.81784	U	-0.004
44011.62953	B	-0.146	43882.82895	U	-0.049
44011.64791	B	-0.145	43882.83254	U	-0.071
44011.65387	B	-0.148	43882.84446	U	-0.041
44011.65752	B	-0.148	43882.84788	U	-0.033
44011.66194	B	-0.145	43882.85250	U	-0.063
44011.66585	B	-0.155	43882.85685	U	-0.022
44011.67817	B	-0.144	43882.89713	U	-0.052
44011.68227	B	-0.152	43882.90031	U	-0.052
44011.68594	B	-0.157	43882.90714	U	-0.042
44011.73487	B	-0.143	43882.91026	U	-0.048
44011.73890	B	-0.147	43882.92062	U	-0.056
44011.74242	B	-0.148	43882.92595	U	-0.050
44011.74716	B	-0.147	43882.93087	U	-0.074
44011.75163	B	-0.147	43882.93411	U	-0.055
44011.75627	B	-0.152	43882.94348	U	-0.055
44011.75946	B	-0.138	43882.94771	U	-0.060
44011.76790	B	-0.149	43882.95193	U	-0.049
44011.77127	B	-0.146	43882.95888	U	-0.048
44011.77474	B	-0.155	43883.76588	U	1.653
44011.78035	B	-0.165	43883.77045	U	1.625
44011.78365	B	-0.164	43883.77323	U	1.757
44011.78703	B	-0.149	43883.77723	U	1.732
44011.79314	B	-0.140	43883.78006	U	1.701
44011.79692	B	-0.153	43883.78550	U	1.735
44011.80063	B	-0.154	43883.78828	U	1.682
44011.80415	B	-0.144	43883.79222	U	1.816
44011.80801	B	-0.161	43883.79505	U	1.771
43848.88723	U	-0.061	43883.79957	U	1.693
43848.89267	U	-0.068	43883.80234	U	1.719
43848.89967	U	-0.080	43883.80825	U	1.730
43848.90436	U	-0.082	43883.81126	U	1.784
43848.90986	U	-0.064	43883.82127	U	1.978
43848.92166	U	-0.055	43883.82410	U	1.910
43848.92664	U	-0.061	43883.82960	U	1.735
43848.93509	U	-0.053	43883.83273	U	1.739
43848.93995	U	-0.058	43883.83776	U	1.773
43848.94765	U	-0.054	43883.84089	U	1.797
43855.88192	U	-0.150	43883.84586	U	1.719
43855.88643	U	-0.140	43883.85021	U	1.686
43855.89245	U	-0.152	43883.85449	U	1.702
43855.90807	U	-0.135	43883.85738	U	1.712
43855.91352	U	-0.160	43883.86415	U	1.753
43855.91924	U	-0.156	43883.86768	U	1.753
43855.92492	U	-0.138	43883.87474	U	1.660
43855.93099	U	-0.127	43889.85208	U	-0.150
43855.93667	U	-0.125	43889.85613	U	-0.145
43855.94280	U	-0.149	43889.86470	U	-0.145
43855.95223	U	-0.126	43889.86858	U	-0.178
43855.95860	U	-0.151	43889.87731	U	-0.169
43855.96514	U	-0.170	43902.89587	U	1.839
43882.78873	U	-0.031	43902.89975	U	1.831
43882.79585	U	-0.022	43902.90576	U	1.854
43882.80632	U	-0.017	43902.90934	U	1.850
43882.81217	U	-0.032	43902.91475	U	1.818

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43902.92205	U	1.806	43916.97262	U	-0.064
43902.92586	U	1.813	43940.66349	U	-0.057
43902.93165	U	1.838	43940.66746	U	-0.075
43902.93781	U	1.847	43940.67276	U	-0.059
43902.94261	U	1.852	43940.67675	U	-0.054
43902.94759	U	1.837	43940.68212	U	-0.047
43902.95226	U	1.834	43940.68625	U	-0.050
43902.95681	U	1.833	43940.69138	U	-0.057
43902.96292	U	1.850	43940.69557	U	-0.059
43902.96847	U	1.827	43940.70201	U	-0.055
43905.80105	B	-0.166	43940.70661	U	-0.071
43905.80531	B	-0.171	43940.71195	U	-0.075
43905.80960	B	-0.168	43940.71577	U	-0.071
43905.81737	B	-0.173	43940.71955	U	-0.063
43913.77831	U	-0.159	43940.72704	U	-0.053
43913.78182	U	-0.149	43940.73731	U	-0.067
43913.78469	U	-0.139	43940.74502	U	-0.057
43913.78834	U	-0.185	43940.74890	U	-0.032
43913.79708	U	-0.172	43940.75326	U	-0.096
43913.80170	U	-0.111	43941.66222	U	-0.145
43913.80868	U	-0.146	43941.66600	U	-0.138
43913.81228	U	-0.167	43941.66984	U	-0.121
43913.81893	U	-0.120	43941.67476	U	-0.127
43916.76291	U	-0.040	43941.69175	U	-0.152
43916.76929	U	-0.090	43941.69652	U	-0.120
43916.77561	U	-0.047	43941.70172	U	-0.149
43916.78119	U	-0.052	43941.70555	U	-0.169
43916.78654	U	-0.053	43941.70919	U	-0.142
43916.79216	U	-0.045	43941.71315	U	-0.132
43916.80262	U	-0.067	43941.71751	U	-0.122
43916.80813	U	-0.054	43941.72357	U	-0.135
43916.81358	U	-0.057	43941.72960	U	-0.108
43916.81917	U	-0.050	43941.74055	U	-0.132
43916.82561	U	-0.063	43941.74535	U	-0.131
43916.83743	U	-0.058	43941.75175	U	-0.128
43916.84928	U	-0.051	43941.75579	U	-0.122
43916.86602	U	-0.051	43941.76036	U	-0.136
43916.87974	U	-0.062	43941.76434	U	-0.151
43916.88370	U	-0.063	43941.76823	U	-0.166
43916.88920	U	-0.063	43941.77320	U	-0.137
43916.89332	U	-0.071	43941.77711	U	-0.154
43916.90020	U	-0.032	43941.78113	U	-0.129
43916.90604	U	-0.060	43941.78713	U	-0.125
43916.91045	U	-0.062	43941.79073	U	-0.131
43916.91613	U	-0.068	43941.79842	U	-0.130
43916.92058	U	-0.075	43941.80216	U	-0.114
43916.92463	U	-0.058	43941.80814	U	-0.136
43916.93028	U	-0.025	43941.81189	U	-0.133
43916.93571	U	-0.049	43941.81588	U	-0.139
43916.94003	U	-0.036	43941.82175	U	-0.135
43916.94548	U	-0.041	43941.83394	U	-0.133
43916.95162	U	-0.069	43941.83798	U	-0.131
43916.95717	U	-0.035	43941.84351	U	-0.133
43916.96215	U	-0.072	43941.84882	U	-0.138
43916.96714	U	-0.057	43941.85408	U	-0.122

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43941.85965	U	-0.141	43953.84994	U	-0.075
43941.86556	U	-0.120	43953.85389	U	-0.063
43941.87113	U	-0.139	43953.85956	U	-0.095
43941.87806	U	-0.224	43953.86490	U	-0.053
43946.67975	U	-0.140	43953.86917	U	-0.075
43952.74225	U	-0.140	43953.87313	U	-0.062
43952.74691	U	-0.116	43958.73322	U	-0.077
43952.75175	U	-0.123	43958.73669	U	-0.077
43952.75776	U	-0.078	43958.73999	U	-0.067
43952.76274	U	-0.141	43958.74367	U	-0.077
43952.76881	U	-0.148	43958.74729	U	-0.066
43952.77409	U	-0.135	43958.75083	U	-0.061
43952.77999	U	-0.138	43958.75445	U	-0.057
43952.78601	U	-0.122	43958.75797	U	-0.051
43952.79158	U	-0.143	43958.76168	U	-0.079
43952.79819	U	-0.106	43958.76974	U	-0.082
43952.80384	U	-0.088	43958.77347	U	-0.060
43952.81493	U	-0.124	43958.84862	U	-0.062
43952.82350	U	-0.135	43958.85216	U	-0.073
43952.83466	U	-0.124	43958.85596	U	-0.078
43952.83857	U	-0.188	43958.85935	U	-0.059
43952.84385	U	-0.156	43958.86397	U	-0.077
43952.84797	U	-0.124	43958.86756	U	-0.069
43952.85188	U	-0.124	43958.87388	U	-0.075
43952.85737	U	-0.113	43958.87721	U	-0.065
43952.86162	U	-0.130	43958.88217	U	-0.087
43952.86572	U	-0.122	43958.88535	U	-0.073
43952.87094	U	-0.129	43958.88860	U	-0.059
43952.87481	U	-0.120	43958.89227	U	-0.067
43952.87999	U	-0.131	43958.89553	U	-0.062
43952.88542	U	-0.118	43958.90238	U	-0.062
43952.88930	U	-0.099	43958.90603	U	-0.064
43952.89333	U	-0.118	43958.91000	U	-0.032
43952.89712	U	-0.126	43958.91347	U	-0.059
43952.90095	U	-0.134	43958.91669	U	-0.059
43952.90682	U	-0.112	43958.91997	U	-0.070
43952.91151	U	-0.122	43958.92466	U	-0.064
43952.91680	U	-0.114	43958.92993	U	-0.063
43952.92026	U	-0.158	43958.93514	U	-0.072
43952.92654	U	-0.079	43958.93979	U	-0.043
43952.93162	U	-0.024	43980.62788	U	-0.160
43952.93653	U	-0.149	43980.69980	U	-0.161
43953.77820	U	-0.060	43980.70587	U	-0.198
43953.78382	U	-0.072	43980.71319	U	-0.151
43953.78943	U	-0.092	43980.71879	U	-0.135
43953.79307	U	-0.069	43980.72677	U	-0.117
43953.80009	U	-0.050	43980.73708	U	-0.244
43953.80789	U	-0.061	43980.74145	U	-0.223
43953.81326	U	-0.078	43980.74688	U	-0.194
43953.81709	U	-0.060	43980.75071	U	-0.185
43953.82605	U	-0.070	43980.75594	U	-0.163
43953.82998	U	-0.090	43980.76029	U	-0.152
43953.83613	U	-0.081	43980.76638	U	-0.121
43953.83997	U	-0.080	43980.77226	U	-0.147
43953.84399	U	-0.077	43980.77999	U	-0.145

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43980.78404	U	-0.139	44010.79432	U	-0.099
43980.79012	U	-0.139	44010.80642	U	-0.050
43980.80743	U	-0.187	44010.81083	U	-0.089
43980.81300	U	-0.006	44010.81420	U	-0.089
43980.81795	U	-0.085	44011.57861	U	-0.047
43980.83059	U	-0.124	44011.58517	U	-0.095
43980.83509	U	-0.135	44011.58929	U	-0.114
43980.84153	U	-0.165	44011.59306	U	-0.085
43980.84553	U	-0.173	44011.59707	U	-0.038
43980.85807	U	-0.160	44011.60093	U	-0.065
43980.86419	U	-0.109	44011.60581	U	-0.098
43980.86999	U	-0.101	44011.60954	U	-0.076
43980.87404	U	-0.155	44011.61336	U	-0.066
43980.87857	U	-0.146	44011.61819	U	-0.062
44010.60210	U	-0.088	44011.62217	U	-0.057
44010.60730	U	-0.088	44011.62599	U	-0.058
44010.61119	U	-0.113	44011.63011	U	-0.059
44010.61663	U	-0.100	44011.64840	U	-0.043
44010.61999	U	-0.097	44011.65445	U	-0.041
44010.63098	U	-0.088	44011.65795	U	-0.048
44010.63439	U	-0.075	44011.66249	U	-0.025
44010.65771	U	-0.105	44011.66642	U	-0.030
44010.66253	U	-0.096	44011.67868	U	-0.058
44010.66654	U	-0.097	44011.68293	U	-0.067
44010.67987	U	-0.104	44011.68638	U	-0.059
44010.68450	U	-0.091	44011.73530	U	-0.067
44010.69092	U	-0.114	44011.73943	U	-0.071
44010.69458	U	-0.079	44011.74288	U	-0.054
44010.70131	U	-0.105	44011.74760	U	-0.052
44010.70736	U	-0.088	44011.75206	U	-0.067
44010.71233	U	-0.086	44011.75672	U	-0.027
44010.73533	U	-0.098	44011.76010	U	-0.044
44010.74056	U	-0.107	44011.76836	U	-0.062
44010.74566	U	-0.112	44011.77170	U	-0.040
44010.75065	U	-0.099	44011.77517	U	-0.065
44010.75551	U	-0.092	44011.78078	U	-0.096
44010.76018	U	-0.026	44011.78412	U	-0.064
44010.76660	U	-0.111	44011.78747	U	-0.070
44010.77171	U	-0.020	44011.79370	U	-0.045
44010.77548	U	-0.069	44011.79754	U	-0.035
44010.78145	U	-0.073	44011.80105	U	-0.041
44010.78923	U	-0.045	44011.80461	U	-0.031
			44011.80845	U	-0.044

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44225.91030	V	-0.301	44259.89408	V	-0.271
44225.91307	V	-0.322	44259.89693	V	-0.280
44225.91585	V	-0.332	44259.90045	V	-0.270
44225.91863	V	-0.321	44259.90241	V	-0.272
44225.92179	V	-0.311	44259.90519	V	-0.285
44225.92441	V	-0.313	44259.90796	V	-0.259
44225.92696	V	-0.324	44259.91074	V	-0.268
44225.92974	V	-0.308	44259.91354	V	-0.254
44225.93252	V	-0.292	44259.91630	V	-0.265
44225.93530	V	-0.314	44259.91908	V	-0.264
44225.93808	V	-0.314	44259.92185	V	-0.261
44225.94085	V	-0.307	44259.92464	V	-0.262
44225.94365	V	-0.313	44259.92741	V	-0.274
44225.94641	V	-0.307	44259.93028	V	-0.266
44225.94920	V	-0.314	44259.93296	V	-0.274
44225.95198	V	-0.322	44259.93573	V	-0.264
44225.95473	V	-0.319	44259.93852	V	-0.277
44259.78018	V	-0.276	44259.94130	V	-0.277
44259.78296	V	-0.280	44259.94409	V	-0.270
44259.78573	V	-0.306	44259.94686	V	-0.268
44259.78851	V	-0.279	44259.94963	V	-0.272
44259.79129	V	-0.264	44259.95241	V	-0.275
44259.79409	V	-0.275	44259.95519	V	-0.257
44259.79685	V	-0.271	44259.95797	V	-0.270
44259.79962	V	-0.282	44262.76162	V	0.645
44259.80240	V	-0.280	44262.76441	V	0.627
44259.80524	V	-0.287	44262.76718	V	0.613
44259.80796	V	-0.280	44262.76997	V	0.810
44259.81074	V	-0.279	44262.77274	V	0.783
44259.81351	V	-0.273	44262.77553	V	0.505
44259.81629	V	-0.275	44262.77829	V	0.645
44259.81908	V	-0.290	44262.78112	V	0.655
44259.82187	V	-0.294	44262.78385	V	0.626
44259.82463	V	-0.285	44262.78670	V	0.622
44259.83298	V	-0.274	44262.80082	V	0.716
44259.83562	V	-0.296	44262.80412	V	0.373
44259.84129	V	-0.289	44262.84774	V	0.638
44259.84407	V	-0.285	44262.85052	V	0.643
44259.84685	V	-0.292	44262.85330	V	0.638
44259.84963	V	-0.285	44262.85607	V	0.643
44259.85243	V	-0.286	44262.85885	V	0.638
44259.85524	V	-0.285	44262.86163	V	0.653
44259.85807	V	-0.277	44262.86441	V	0.655
44259.86074	V	-0.283	44262.86721	V	0.642
44259.86352	V	-0.286	44262.87003	V	0.630
44259.86630	V	-0.278	44262.87274	V	0.655
44259.86907	V	-0.263	44262.87552	V	0.647
44259.87185	V	-0.273	44262.87830	V	0.633
44259.87450	V	-0.275	44262.88108	V	0.644
44259.87747	V	-0.267	44262.88385	V	0.644
44259.88019	V	-0.268	44262.88663	V	0.633
44259.88296	V	-0.272	44262.88941	V	0.625
44259.88574	V	-0.272	44262.89219	V	0.625
44259.88852	V	-0.273	44262.89497	V	0.601
44259.89138	V	-0.267	44262.89774	V	0.591

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44262.90052	V	0.577	44268.86339	V	-0.321
44262.90330	V	0.559	44268.86617	V	-0.319
44262.90608	V	0.546	44268.86895	V	-0.326
44262.90886	V	0.541	44268.87175	V	-0.323
44262.91166	V	0.518	44268.87450	V	-0.317
44262.91441	V	0.478	44268.87728	V	-0.317
44262.91719	V	0.476	44268.88009	V	-0.322
44262.91997	V	0.440	44268.88302	V	-0.330
44262.92275	V	0.425	44268.88564	V	-0.338
44262.92555	V	0.406	44268.88842	V	-0.321
44262.92830	V	0.371	44268.89117	V	-0.321
44262.93108	V	0.366	44268.89398	V	-0.320
44262.93393	V	0.334	44268.89675	V	-0.308
44262.93664	V	0.318	44268.89950	V	-0.318
44262.93941	V	0.295	44268.90228	V	-0.311
44262.94220	V	0.271	44268.90506	V	-0.315
44262.95057	V	0.211	44268.90784	V	-0.324
44262.95330	V	0.195	44268.91062	V	-0.326
44262.95610	V	0.166	44268.91339	V	-0.309
44262.95886	V	0.142	44268.91617	V	-0.317
44262.96164	V	0.125	44268.91895	V	-0.320
44262.96442	V	0.105	44268.92174	V	-0.318
44262.96719	V	0.092	44268.92476	V	-0.324
44262.96997	V	0.069	44268.92728	V	-0.316
44262.97275	V	0.035	44268.93006	V	-0.308
44268.78005	V	-0.331	44268.93284	V	-0.308
44268.78283	V	-0.335	44268.93562	V	-0.314
44268.78561	V	-0.322	44268.93840	V	-0.317
44268.78839	V	-0.326	44268.94117	V	-0.311
44268.79116	V	-0.334	44268.94395	V	-0.304
44268.79394	V	-0.349	44268.94673	V	-0.308
44268.79672	V	-0.340	44268.94951	V	-0.310
44268.79950	V	-0.333	44268.95229	V	-0.303
44268.80228	V	-0.323	44268.95506	V	-0.306
44268.80516	V	-0.324	44268.95784	V	-0.314
44268.80783	V	-0.331	44268.96063	V	-0.312
44268.81061	V	-0.324	44273.72200	V	-0.323
44268.81339	V	-0.333	44273.72478	V	-0.337
44268.81617	V	-0.326	44273.72762	V	-0.311
44268.81894	V	-0.336	44273.73035	V	-0.308
44268.82172	V	-0.316	44273.73311	V	-0.323
44268.82451	V	-0.326	44273.73594	V	-0.325
44268.82728	V	-0.337	44273.73867	V	-0.329
44268.83006	V	-0.326	44273.74145	V	-0.319
44268.83283	V	-0.325	44273.74423	V	-0.326
44268.83561	V	-0.320	44273.74700	V	-0.318
44268.83839	V	-0.317	44273.74978	V	-0.335
44268.84117	V	-0.327	44273.75256	V	-0.320
44268.84395	V	-0.320	44273.75540	V	-0.325
44268.84672	V	-0.329	44273.75812	V	-0.293
44268.84950	V	-0.333	44273.76089	V	-0.309
44268.85233	V	-0.322	44273.76367	V	-0.313
44268.85506	V	-0.325	44273.76645	V	-0.307
44268.85784	V	-0.322	44273.76949	V	-0.302
44268.86061	V	-0.321	44273.77206	V	-0.286

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44273.77478	V	-0.263	44274.75053	V	-0.159
44273.77756	V	-0.288	44274.75331	V	-0.161
44273.78034	V	-0.308	44274.75609	V	-0.159
44273.78334	V	-0.322	44274.75886	V	-0.172
44273.78589	V	-0.237	44274.76164	V	-0.170
44273.78867	V	-0.318	44274.76442	V	-0.174
44273.79423	V	-0.316	44274.76720	V	-0.178
44273.79701	V	-0.303	44274.77010	V	-0.163
44273.79978	V	-0.310	44274.77277	V	-0.152
44273.80256	V	-0.304	44274.77553	V	-0.159
44273.80534	V	-0.305	44274.77831	V	-0.145
44273.80812	V	-0.285	44274.78109	V	-0.155
44273.81090	V	-0.293	44274.78387	V	-0.159
44273.81367	V	-0.305	44274.78663	V	-0.147
44273.81645	V	-0.322	44274.78942	V	-0.154
44273.81925	V	-0.320	44274.79221	V	-0.164
44273.82201	V	-0.306	44274.79497	V	-0.173
44273.82479	V	-0.308	44274.79776	V	-0.159
44273.82756	V	-0.308	44274.80052	V	-0.157
44273.83034	V	-0.305	44274.80339	V	-0.154
44273.83313	V	-0.297	44274.80609	V	-0.149
44273.83596	V	-0.295	44274.80890	V	-0.158
44273.83868	V	-0.299	44274.81165	V	-0.159
44273.84145	V	-0.302	44274.81442	V	-0.165
44273.84423	V	-0.318	44274.81720	V	-0.164
44273.84701	V	-0.306	44274.81998	V	-0.165
44273.84979	V	-0.299	44274.82276	V	-0.164
44273.85261	V	-0.300	44274.82569	V	-0.155
44273.85534	V	-0.293	44274.82831	V	-0.163
44273.85812	V	-0.293	44274.83109	V	-0.178
44273.86078	V	-0.301	44274.83387	V	-0.158
44273.86368	V	-0.298	44274.83665	V	-0.168
44273.86652	V	-0.296	44274.83942	V	-0.183
44273.86923	V	-0.286	44274.84220	V	-0.173
44273.87208	V	-0.298	44274.84498	V	-0.171
44273.87479	V	-0.302	44274.84776	V	-0.167
44273.87757	V	-0.299	44274.85054	V	-0.157
44273.88036	V	-0.318	44274.85320	V	-0.167
44273.88319	V	-0.302	44274.85609	V	-0.178
44273.88595	V	-0.307	44274.85887	V	-0.180
44273.88871	V	-0.317	44274.86165	V	-0.180
44273.89149	V	-0.304	44274.86443	V	-0.161
44273.89473	V	-0.296	44274.86720	V	-0.162
44274.71720	V	-0.174	44274.86998	V	-0.172
44274.71997	V	-0.182	44274.87276	V	-0.170
44274.72275	V	-0.177	44274.87554	V	-0.170
44274.72553	V	-0.177	44274.87832	V	-0.184
44274.72831	V	-0.173	44274.88179	V	-0.178
44274.73107	V	-0.155	44274.88387	V	-0.185
44274.73386	V	-0.154	44274.88672	V	-0.161
44274.73664	V	-0.169	44274.88943	V	-0.176
44274.73942	V	-0.177	44274.89221	V	-0.183
44274.74220	V	-0.183	44274.89498	V	-0.175
44274.74497	V	-0.169	44274.89776	V	-0.177
44274.74779	V	-0.152	44274.90056	V	-0.178

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44274.90334	V	-0.193	44276.79647	V	-0.347
44274.90609	V	-0.187	44276.79925	V	-0.343
44274.90887	V	-0.190	44276.80204	V	-0.334
44274.91169	V	-0.189	44276.80481	V	-0.347
44274.91443	V	-0.186	44276.80758	V	-0.347
44274.91721	V	-0.193	44276.81037	V	-0.342
44274.91998	V	-0.190	44276.81314	V	-0.342
44274.92281	V	-0.189	44276.81592	V	-0.355
44274.92554	V	-0.191	44276.81870	V	-0.340
44274.92832	V	-0.205	44276.82147	V	-0.334
44274.93110	V	-0.202	44276.82425	V	-0.342
44274.93387	V	-0.200	44276.82703	V	-0.337
44274.93665	V	-0.202	44276.82981	V	-0.355
44274.93943	V	-0.200	44276.83259	V	-0.359
44274.94224	V	-0.212	44276.83536	V	-0.347
44274.94499	V	-0.203	44276.83814	V	-0.349
44274.94776	V	-0.213	44276.84092	V	-0.345
44274.95054	V	-0.213	44276.84370	V	-0.354
44274.95332	V	-0.211	44276.84647	V	-0.352
44274.95610	V	-0.204	44276.84925	V	-0.353
44274.95888	V	-0.221	44276.85203	V	-0.343
44274.96165	V	-0.217	44276.85488	V	-0.349
44274.96443	V	-0.196	44276.85759	V	-0.336
44274.96722	V	-0.211	44276.86036	V	-0.352
44275.72425	V	-0.256	44276.86314	V	-0.356
44275.72697	V	-0.277	44276.86593	V	-0.358
44275.72975	V	-0.287	44276.86870	V	-0.348
44275.73253	V	-0.288	44276.87148	V	-0.357
44275.73532	V	-0.280	44276.87425	V	-0.356
44275.73808	V	-0.277	44276.87703	V	-0.356
44275.74086	V	-0.274	44276.87981	V	-0.335
44275.74364	V	-0.276	44276.88535	V	-0.350
44275.74642	V	-0.266	44276.88814	V	-0.351
44275.74936	V	-0.278	44276.89092	V	-0.350
44275.75197	V	-0.267	44276.89401	V	-0.344
44275.75475	V	-0.264	44276.89648	V	-0.365
44275.75753	V	-0.286	44276.89926	V	-0.345
44275.76031	V	-0.287	44276.90203	V	-0.336
44275.76308	V	-0.273	44276.90481	V	-0.352
44275.76586	V	-0.277	44276.90759	V	-0.351
44275.76864	V	-0.288	44276.91037	V	-0.340
44275.77142	V	-0.277	44276.91314	V	-0.344
44275.77420	V	-0.275	44276.91592	V	-0.358
44276.76315	V	-0.326	44276.91882	V	-0.352
44276.76592	V	-0.354	44276.92148	V	-0.347
44276.76869	V	-0.356	44276.92426	V	-0.356
44276.77147	V	-0.346	44276.92703	V	-0.352
44276.77425	V	-0.337	44276.92981	V	-0.345
44276.77703	V	-0.339	44276.93259	V	-0.347
44276.77980	V	-0.341	44276.93537	V	-0.345
44276.78258	V	-0.339	44276.93815	V	-0.340
44276.78536	V	-0.344	44276.94092	V	-0.335
44276.78814	V	-0.336	44276.94370	V	-0.325
44276.79092	V	-0.340	44276.94648	V	-0.328
44276.79372	V	-0.345	44276.94926	V	-0.333

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44276.95204	V	-0.337	44290.70959	V	-0.332
44276.95481	V	-0.309	44290.71237	V	-0.328
44277.73402	V	-0.344	44290.71514	V	-0.314
44277.73693	V	-0.375	44290.71792	V	-0.334
44277.73956	V	-0.384	44290.72070	V	-0.311
44277.74239	V	-0.375	44290.72348	V	-0.313
44277.74513	V	-0.380	44290.72626	V	-0.323
44277.74791	V	-0.375	44290.72903	V	-0.307
44277.75069	V	-0.388	44290.73182	V	-0.321
44277.75347	V	-0.385	44290.73459	V	-0.325
44277.75624	V	-0.384	44290.73737	V	-0.335
44277.75902	V	-0.380	44290.74015	V	-0.341
44277.76180	V	-0.382	44290.74292	V	-0.305
44277.76458	V	-0.375	44290.74570	V	-0.319
44277.76736	V	-0.380	44290.74848	V	-0.310
44277.77013	V	-0.381	44290.75126	V	-0.346
44277.77291	V	-0.390	44290.75405	V	-0.306
44277.77590	V	-0.357	44290.75681	V	-0.315
44277.77851	V	-0.357	44290.75959	V	-0.316
44277.78125	V	-0.372	44290.76237	V	-0.300
44277.78402	V	-0.385	44290.76515	V	-0.316
44277.78680	V	-0.381	44290.76792	V	-0.320
44277.78958	V	-0.379	44290.77071	V	-0.333
44277.79250	V	-0.387	44290.77348	V	-0.343
44277.79791	V	-0.367	44290.77626	V	-0.351
44277.80069	V	-0.381	44290.77904	V	-0.348
44277.80349	V	-0.368	44290.78181	V	-0.318
44277.80625	V	-0.364	44290.78459	V	-0.335
44277.80902	V	-0.374	44290.78737	V	-0.340
44277.81180	V	-0.378	44290.79015	V	-0.332
44277.81458	V	-0.369	44290.79293	V	-0.349
44289.81094	V	-0.266	44290.79570	V	-0.327
44289.81372	V	-0.279	44290.79848	V	-0.319
44289.81650	V	-0.273	44291.69018	V	0.741
44289.81928	V	-0.273	44291.69296	V	0.530
44289.82206	V	-0.259	44291.69574	V	0.524
44289.82483	V	-0.266	44291.69852	V	0.448
44289.82761	V	-0.252	44291.70129	V	0.457
44289.83039	V	-0.274	44291.70407	V	0.448
44289.83317	V	-0.256	44291.70694	V	0.436
44289.83595	V	-0.262	44291.70962	V	0.418
44289.83872	V	-0.277	44291.71240	V	0.376
44289.84154	V	-0.285	44291.71518	V	0.376
44289.84428	V	-0.272	44291.71796	V	0.359
44289.84706	V	-0.261	44291.72074	V	0.351
44289.84985	V	-0.265	44291.72351	V	0.300
44289.85267	V	-0.268	44291.72629	V	0.276
44289.85539	V	-0.272	44291.72907	V	0.259
44289.85817	V	-0.243	44291.73185	V	0.255
44289.86372	V	-0.248	44291.73463	V	0.201
44289.86650	V	-0.203	44291.73740	V	0.201
44289.86928	V	-0.256	44291.74018	V	0.166
44289.87206	V	-0.247	44291.74296	V	0.171
44290.70403	V	-0.314	44291.74574	V	0.148
44290.70681	V	-0.321	44291.74851	V	0.134

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44291.75129	V	0.082	44291.90963	V	–0.380
44291.75407	V	0.063	44291.91241	V	–0.377
44291.75685	V	0.057	44291.91519	V	–0.372
44291.75963	V	0.060	44291.91797	V	–0.393
44291.76240	V	0.019	44291.92074	V	–0.361
44291.76518	V	–0.009	44291.92352	V	–0.363
44291.76796	V	–0.038	44291.92630	V	–0.369
44291.77074	V	–0.039	44291.92908	V	–0.380
44291.77352	V	–0.078	44291.93185	V	–0.369
44291.77647	V	–0.073	44291.93463	V	–0.363
44291.77909	V	–0.090	44291.93741	V	–0.375
44291.78185	V	–0.100	44291.94019	V	–0.379
44291.78463	V	–0.133	44291.94297	V	–0.369
44291.79018	V	–0.130	44291.94574	V	–0.388
44291.79296	V	–0.181	44291.94852	V	–0.393
44291.79574	V	–0.205	44292.66799	V	–0.358
44291.80129	V	–0.212	44292.67077	V	–0.346
44291.80407	V	–0.201	44292.67355	V	–0.344
44291.80685	V	–0.232	44292.67632	V	–0.373
44291.80963	V	–0.223	44292.67910	V	–0.351
44291.81241	V	–0.265	44292.68188	V	–0.343
44291.81518	V	–0.261	44292.68466	V	–0.348
44291.81798	V	–0.266	44292.68745	V	–0.348
44291.82073	V	–0.285	44292.69021	V	–0.381
44291.82352	V	–0.275	44292.69305	V	–0.302
44291.82632	V	–0.296	44296.86396	V	–0.378
44291.82907	V	–0.301	44296.86673	V	–0.382
44291.83185	V	–0.340	44296.87009	V	–0.381
44291.83464	V	–0.339	44296.87229	V	–0.399
44291.83741	V	–0.352	44296.87507	V	–0.368
44291.84018	V	–0.329	44296.87785	V	–0.382
44291.84296	V	–0.346	44298.65706	V	–0.220
44291.84575	V	–0.357	44298.65984	V	–0.207
44291.84852	V	–0.345	44298.66262	V	–0.171
44291.85135	V	–0.357	44298.66539	V	–0.186
44291.85407	V	–0.353	44298.66817	V	–0.214
44291.85685	V	–0.368	44298.67095	V	–0.194
44291.85963	V	–0.372	44298.67373	V	–0.210
44291.86241	V	–0.373	44298.67651	V	–0.180
44291.86519	V	–0.391	44298.67928	V	–0.183
44291.86797	V	–0.387	44298.68206	V	–0.169
44291.87074	V	–0.373	44298.68484	V	–0.172
44291.87354	V	–0.349	44298.68762	V	–0.177
44291.87644	V	–0.379	44298.69043	V	–0.181
44291.87909	V	–0.361	44298.69317	V	–0.182
44291.88185	V	–0.366	44298.69595	V	–0.165
44291.88463	V	–0.387	44298.69873	V	–0.184
44291.88741	V	–0.369	44298.70151	V	–0.187
44291.89019	V	–0.372	44298.70428	V	–0.158
44291.89294	V	–0.381	44298.70706	V	–0.155
44291.89574	V	–0.364	44298.70972	V	–0.174
44291.89852	V	–0.369	44298.71262	V	–0.150
44291.90130	V	–0.378	44298.71540	V	–0.143
44291.90408	V	–0.363	44298.71817	V	–0.166
44291.90685	V	–0.380	44298.72095	V	–0.169

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44298.72373	V	-0.170	44298.90985	V	-0.178
44298.72651	V	-0.192	44298.91262	V	-0.211
44298.73209	V	-0.165	44298.91825	V	-0.198
44298.73484	V	-0.172	44302.64092	V	-0.302
44298.73762	V	-0.176	44302.64495	V	-0.294
44298.74040	V	-0.172	44302.64980	V	-0.299
44298.74319	V	-0.149	44302.65252	V	-0.287
44298.74595	V	-0.147	44302.65724	V	-0.269
44298.74873	V	-0.184	44302.66088	V	-0.305
44298.75151	V	-0.193	44302.66365	V	-0.298
44298.75430	V	-0.155	44302.66645	V	-0.297
44298.75706	V	-0.129	44302.67062	V	-0.286
44298.75984	V	-0.150	44302.67432	V	-0.303
44298.76262	V	-0.153	44302.67814	V	-0.294
44298.76540	V	-0.168	44302.68114	V	-0.312
44298.77098	V	-0.145	44302.68473	V	-0.282
44298.77373	V	-0.164	44302.68735	V	-0.295
44298.77651	V	-0.164	44302.68978	V	-0.293
44298.77929	V	-0.160	44302.69354	V	-0.292
44298.78206	V	-0.146	44302.69636	V	-0.286
44298.78484	V	-0.163	44302.69896	V	-0.284
44298.78762	V	-0.155	44302.70151	V	-0.293
44298.79040	V	-0.172	44302.70451	V	-0.299
44298.79322	V	-0.158	44302.71010	V	-0.293
44298.79595	V	-0.166	44302.71303	V	-0.292
44298.79873	V	-0.164	44302.71601	V	-0.287
44298.80151	V	-0.166	44302.72003	V	-0.293
44298.80429	V	-0.176	44302.72267	V	-0.277
44298.80711	V	-0.167	44302.72530	V	-0.287
44298.80984	V	-0.181	44302.73012	V	-0.284
44298.81267	V	-0.154	44302.73343	V	-0.280
44298.81540	V	-0.214	44302.73627	V	-0.280
44298.84318	V	-0.183	44302.73920	V	-0.287
44298.84595	V	-0.161	44302.74182	V	-0.271
44298.85151	V	-0.186	44302.74510	V	-0.290
44298.85429	V	-0.180	44302.74851	V	-0.302
44298.85708	V	-0.171	44302.75245	V	-0.277
44298.85988	V	-0.159	44302.75656	V	-0.291
44298.86262	V	-0.179	44302.75925	V	-0.295
44298.86540	V	-0.180	44302.76194	V	-0.274
44298.86818	V	-0.180	44302.76473	V	-0.263
44298.87096	V	-0.188	44302.76781	V	-0.295
44298.87373	V	-0.181	44302.77241	V	-0.277
44298.87651	V	-0.180	44302.77581	V	-0.281
44298.87929	V	-0.192	44302.78023	V	-0.260
44298.88243	V	-0.175	44302.78303	V	-0.273
44298.88484	V	-0.187	44302.78303	V	-0.273
44298.88762	V	-0.184	44302.78679	V	-0.265
44298.89040	V	-0.193	44302.78679	V	-0.265
44298.89318	V	-0.195	44302.79347	V	-0.283
44298.89597	V	-0.199	44302.79615	V	-0.291
44298.89873	V	-0.199	44302.79899	V	-0.283
44298.90151	V	-0.208	44302.80165	V	-0.287
44298.90429	V	-0.207	44302.80412	V	-0.269
44298.90708	V	-0.224	44302.80674	V	-0.267

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HELIC. J.D.	FILTER	V−C	HELIO. J.D.	FILTER	V−C
44302.80946	V	−0.285	44320.72320	V	−0.376
44302.81207	V	−0.272	44320.72589	V	−0.375
44302.81583	V	−0.300	44320.72820	V	−0.369
44302.81823	V	−0.258	44320.73062	V	−0.377
44302.82115	V	−0.270	44320.73410	V	−0.400
44302.82446	V	−0.265	44320.73650	V	−0.380
44302.82720	V	−0.269	44320.73937	V	−0.377
44302.82975	V	−0.278	44320.74213	V	−0.365
44302.83270	V	−0.300	44320.74463	V	−0.366
44302.83540	V	−0.289	44320.74913	V	−0.371
44302.85583	V	−0.264	44320.76264	V	−0.377
44302.85946	V	−0.280	44320.76512	V	−0.386
44302.86296	V	−0.270	44320.76812	V	−0.364
44302.86568	V	−0.285	44320.77078	V	−0.376
44302.86867	V	−0.278	44320.77321	V	−0.372
44302.87324	V	−0.260	44320.77569	V	−0.378
44302.87783	V	−0.298	44320.78345	V	−0.371
44302.88092	V	−0.296	44320.78613	V	−0.358
44302.88575	V	−0.263	44320.78879	V	−0.383
44302.88826	V	−0.276	44320.79140	V	−0.342
44302.89107	V	−0.272	44320.79463	V	−0.363
44302.89371	V	−0.281	44320.79706	V	−0.375
44302.89636	V	−0.257	44320.79961	V	−0.360
44302.89956	V	−0.281	44320.83409	V	−0.379
44302.90445	V	−0.252	44320.83648	V	−0.384
44302.90719	V	−0.281	44320.83895	V	−0.359
44302.90989	V	−0.294	44320.84132	V	−0.357
44302.91307	V	−0.309	44320.84357	V	−0.354
44302.91632	V	−0.291	44320.84573	V	−0.386
44302.92024	V	−0.287	44320.84799	V	−0.381
44302.92354	V	−0.284	44320.85058	V	−0.366
44302.92632	V	−0.281	44320.85339	V	−0.357
44302.92913	V	−0.278	44320.85577	V	−0.366
44302.93189	V	−0.268	44320.85827	V	−0.355
44302.93466	V	−0.293	44320.86152	V	−0.358
44302.93717	V	−0.300	44320.86450	V	−0.362
44302.93972	V	−0.248	44320.86797	V	−0.359
44320.67718	V	−0.376	44320.87143	V	−0.378
44320.67944	V	−0.354	44320.87390	V	−0.380
44320.68172	V	−0.356	44320.87625	V	−0.369
44320.68391	V	−0.365	44320.87859	V	−0.364
44320.68610	V	−0.371	44320.88096	V	−0.368
44320.68944	V	−0.354	44320.88312	V	−0.379
44320.69214	V	−0.368	44320.88678	V	−0.342
44320.69455	V	−0.373	44320.88931	V	−0.347
44320.69683	V	−0.372	44320.89174	V	−0.362
44320.70004	V	−0.368	44335.60715	V	−0.359
44320.70224	V	−0.373	44335.60992	V	−0.341
44320.70453	V	−0.364	44335.61270	V	−0.312
44320.70672	V	−0.356	44335.61548	V	−0.323
44320.71008	V	−0.369	44335.61826	V	−0.344
44320.71229	V	−0.357	44335.62104	V	−0.342
44320.71462	V	−0.363	44335.62381	V	−0.331
44320.71751	V	−0.351	44335.64048	V	−0.323
44320.72091	V	−0.379	44335.64326	V	−0.332

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44335.64604	V	-0.339	44339.57650	V	0.654
44335.64881	V	-0.352	44339.57927	V	0.649
44335.65159	V	-0.360	44339.58205	V	0.647
44335.65437	V	-0.336	44339.58483	V	0.643
44335.65715	V	-0.348	44339.58761	V	0.628
44335.65992	V	-0.356	44339.59038	V	0.638
44335.66270	V	-0.339	44339.59316	V	0.640
44335.66548	V	-0.359	44339.59594	V	0.639
44335.66826	V	-0.346	44339.59860	V	0.629
44335.67103	V	-0.353	44339.60149	V	0.644
44335.67394	V	-0.340	44339.60427	V	0.660
44335.67659	V	-0.348	44339.60705	V	0.628
44335.67937	V	-0.337	44339.60983	V	0.636
44335.68215	V	-0.344	44339.61261	V	0.663
44335.68492	V	-0.324	44339.61538	V	0.660
44335.68770	V	-0.325	44339.61816	V	0.668
44335.69048	V	-0.331	44339.62095	V	0.659
44335.69326	V	-0.336	44339.62372	V	0.622
44335.69603	V	-0.334	44339.62649	V	0.621
44335.69881	V	-0.318	44339.62927	V	0.645
44335.70159	V	-0.325	44339.63205	V	0.631
44335.70437	V	-0.343	44339.63483	V	0.624
44335.70713	V	-0.344	44339.63760	V	0.646
44335.70992	V	-0.351	44339.64038	V	0.641
44335.71270	V	-0.339	44339.64316	V	0.640
44335.71549	V	-0.344	44339.64594	V	0.640
44335.71826	V	-0.339	44339.64872	V	0.655
44335.72103	V	-0.346	44339.65149	V	0.621
44335.72381	V	-0.333	44339.65427	V	0.616
44335.72659	V	-0.323	44339.65705	V	0.610
44335.72937	V	-0.317	44339.65983	V	0.598
44335.73214	V	-0.340	44339.66267	V	0.592
44335.73492	V	-0.338	44339.66538	V	0.585
44335.73770	V	-0.331	44339.66816	V	0.550
44335.74048	V	-0.329	44339.67094	V	0.538
44335.74330	V	-0.321	44340.57538	V	-0.324
44335.75159	V	-0.336	44340.57785	V	-0.315
44335.75437	V	-0.330	44340.58036	V	-0.348
44335.75714	V	-0.337	44340.58283	V	-0.329
44335.75992	V	-0.322	44340.58518	V	-0.325
44335.76270	V	-0.336	44340.64908	V	-0.327
44335.76548	V	-0.313	44340.65140	V	-0.324
44335.79264	V	-0.323	44340.65393	V	-0.319
44335.79493	V	-0.337	44340.65651	V	-0.312
44335.79735	V	-0.325	44340.65893	V	-0.325
44335.81070	V	-0.321	44340.66181	V	-0.322
44335.81300	V	-0.339	44340.66590	V	-0.334
44335.81535	V	-0.326	44340.66834	V	-0.320
44335.81839	V	-0.331	44340.67076	V	-0.341
44335.82093	V	-0.344	44340.67397	V	-0.313
44335.82362	V	-0.329	44340.67636	V	-0.330
44335.82593	V	-0.293	44340.67903	V	-0.320
44335.82867	V	-0.338	44340.68254	V	-0.323
44335.83116	V	-0.198	44340.68505	V	-0.332
44339.57372	V	0.640	44340.68822	V	-0.324

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44340.69094	V	-0.332	44351.55526	V	-0.112
44340.69371	V	-0.334	44351.55803	V	-0.163
44340.69715	V	-0.349	44351.56081	V	-0.154
44340.70003	V	-0.329	44351.56359	V	-0.184
44340.70344	V	-0.327	44351.56637	V	-0.175
44340.70655	V	-0.315	44351.56916	V	-0.140
44340.70927	V	-0.294	44351.57192	V	-0.159
44341.58655	V	-0.230	44351.57470	V	-0.155
44341.58931	V	-0.284	44351.57747	V	-0.176
44341.59190	V	-0.267	44351.58026	V	-0.168
44341.59438	V	-0.289	44351.58303	V	-0.144
44341.61500	V	-0.256	44351.58582	V	-0.171
44341.61743	V	-0.248	44351.58859	V	-0.164
44341.62098	V	-0.264	44351.59137	V	-0.156
44341.62337	V	-0.251	44351.59414	V	-0.158
44341.62572	V	-0.280	44351.59706	V	-0.162
44341.62828	V	-0.255	44351.59970	V	-0.184
44341.63048	V	-0.273	44351.60524	V	-0.205
44341.63273	V	-0.260	44351.60803	V	-0.162
44341.63508	V	-0.273	44351.61083	V	-0.117
44341.63766	V	-0.198	44351.61359	V	-0.156
44341.63838	V	-0.254	44351.61637	V	-0.168
44341.71737	V	-0.237	44351.61914	V	-0.170
44341.71994	V	-0.253	44351.62192	V	-0.214
44341.72227	V	-0.262	44351.62481	V	-0.170
44341.72678	V	-0.258	44351.63025	V	-0.183
44341.73447	V	-0.271	44351.63362	V	-0.202
44341.73694	V	-0.253	44351.63581	V	-0.211
44341.73940	V	-0.239	44351.63859	V	-0.191
44341.74189	V	-0.215	44351.64136	V	-0.225
44341.74449	V	-0.252	44351.64414	V	-0.222
44341.74687	V	-0.236	44351.64692	V	-0.191
44341.74926	V	-0.253	44351.64970	V	-0.184
44341.75177	V	-0.259	44351.65248	V	-0.168
44341.75471	V	-0.253	44351.65525	V	-0.179
44341.75705	V	-0.234	44351.65803	V	-0.189
44341.76005	V	-0.248	44351.66081	V	-0.205
44341.76257	V	-0.251	44351.66359	V	-0.172
44341.76513	V	-0.223	44351.66636	V	-0.184
44350.64491	V	-0.278	44351.66914	V	-0.206
44350.64733	V	-0.291	44351.67192	V	-0.185
44350.64989	V	-0.291	44351.67472	V	-0.152
44350.65349	V	-0.290	44351.67747	V	-0.167
44350.65594	V	-0.304	44351.68029	V	-0.229
44350.66578	V	-0.289	44351.68303	V	-0.184
44350.68827	V	-0.278	44351.69141	V	-0.237
44350.69244	V	-0.279	44351.69414	V	-0.192
44350.70418	V	-0.278	44351.69692	V	-0.212
44350.70705	V	-0.286	44351.69970	V	-0.220
44350.70960	V	-0.290	44351.70247	V	-0.195
44350.71234	V	-0.260	44351.70525	V	-0.190
44350.71494	V	-0.276	44351.70803	V	-0.234
44350.71910	V	-0.290	44351.71081	V	-0.230
44350.72183	V	-0.287	44351.71358	V	-0.215
44351.55257	V	-0.175	44351.71636	V	-0.222

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44351.71914	V	-0.231	44366.75351	V	-0.283
44351.72192	V	-0.242	44366.75869	V	-0.271
44351.72468	V	-0.224	44366.76108	V	-0.298
44351.72747	V	-0.214	44366.76571	V	-0.291
44351.73025	V	-0.232	44370.57791	V	-0.231
44351.73303	V	-0.240	44370.58069	V	-0.284
44351.73582	V	-0.243	44370.58347	V	-0.237
44351.73858	V	-0.234	44370.58625	V	-0.195
44351.74138	V	-0.242	44370.58902	V	-0.257
44351.74424	V	-0.226	44370.59181	V	-0.208
44351.74692	V	-0.216	44370.59458	V	-0.216
44351.74969	V	-0.247	44370.59735	V	-0.223
44351.75247	V	-0.244	44370.60013	V	-0.218
44351.75536	V	-0.229	44370.60292	V	-0.189
44351.75803	V	-0.253	44370.60569	V	-0.189
44351.76080	V	-0.246	44370.60847	V	-0.205
44351.76358	V	-0.276	44370.67235	V	-0.182
44351.76644	V	-0.261	44370.67513	V	-0.190
44351.76915	V	-0.257	44370.67791	V	-0.167
44351.77191	V	-0.278	44370.68069	V	-0.158
44351.77482	V	-0.276	44370.68350	V	-0.180
44351.77747	V	-0.265	44370.68624	V	-0.190
44351.78053	V	-0.198	44370.68902	V	-0.181
44351.78303	V	-0.228	44370.69180	V	-0.075
44351.78583	V	-0.229	44370.69457	V	-0.199
44351.78858	V	-0.201	44370.69735	V	-0.156
44351.79136	V	-0.270	44370.70013	V	-0.157
44351.79414	V	-0.275	44370.70291	V	-0.127
44351.79691	V	-0.249	44370.70568	V	-0.184
44351.79969	V	-0.242	44370.70846	V	-0.176
44351.80247	V	-0.229	44370.71124	V	-0.162
44351.80525	V	-0.266	44370.71402	V	-0.164
44351.80802	V	-0.271	44370.71679	V	-0.189
44366.61864	V	-0.281	44370.71957	V	-0.179
44366.62107	V	-0.282	44370.72235	V	-0.163
44366.62378	V	-0.281	44370.72513	V	-0.181
44366.62625	V	-0.291	44370.72790	V	-0.185
44366.62866	V	-0.290	44370.73068	V	-0.168
44366.63418	V	-0.289	44370.73346	V	-0.210
44366.63683	V	-0.304	44370.73902	V	-0.210
44366.63934	V	-0.301	44370.74179	V	-0.186
44366.64178	V	-0.300	44370.78346	V	-0.161
44366.64409	V	-0.285	44370.78623	V	-0.178
44366.64658	V	-0.295	44370.78901	V	-0.157
44366.68699	V	-0.283	44370.79179	V	-0.150
44366.68978	V	-0.294	44370.79457	V	-0.179
44366.69223	V	-0.298	44370.79735	V	-0.149
44366.69474	V	-0.293	44370.80012	V	-0.194
44366.69743	V	-0.295	44370.80290	V	-0.179
44366.69998	V	-0.282	44370.80568	V	-0.191
44366.70246	V	-0.281	44370.80846	V	-0.173
44366.70465	V	-0.293	44370.81123	V	-0.189
44366.70763	V	-0.282	44370.81401	V	-0.182
44366.71048	V	-0.285	44370.81679	V	-0.159
44366.75127	V	-0.299	44370.81957	V	-0.195

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44370.82234	V	-0.188	44371.78659	V	-0.318
44370.82513	V	-0.197	44371.78877	V	-0.318
44371.60328	V	-0.291	44371.79089	V	-0.309
44371.60564	V	-0.309	44371.79308	V	-0.327
44371.60799	V	-0.314	44371.79516	V	-0.297
44371.61064	V	-0.297	44371.79755	V	-0.302
44371.61307	V	-0.298	44371.79966	V	-0.305
44371.61556	V	-0.317	44371.80262	V	-0.319
44371.61786	V	-0.300	44371.80481	V	-0.317
44371.62063	V	-0.309	44371.80698	V	-0.300
44371.62343	V	-0.303	44371.80916	V	-0.310
44371.62599	V	-0.305	44371.81131	V	-0.304
44371.62952	V	-0.298	44371.81343	V	-0.319
44371.63182	V	-0.298	44371.81752	V	-0.337
44371.63414	V	-0.294	44371.81968	V	-0.311
44371.64080	V	-0.299	44371.82184	V	-0.300
44371.64309	V	-0.308	44371.82404	V	-0.310
44371.64564	V	-0.312	44371.82631	V	-0.294
44371.64832	V	-0.307	44378.58640	V	-0.393
44371.65070	V	-0.293	44378.58891	V	-0.350
44371.69690	V	-0.304	44378.59631	V	-0.363
44371.69907	V	-0.292	44378.59932	V	-0.358
44371.70123	V	-0.295	44378.64857	V	-0.342
44371.70339	V	-0.294	44378.65115	V	-0.346
44371.70581	V	-0.308	44378.65509	V	-0.350
44371.70826	V	-0.315	44378.65784	V	-0.366
44371.71057	V	-0.312	44378.68669	V	-0.381
44371.71271	V	-0.307	44378.68953	V	-0.378
44371.71483	V	-0.309	44378.69164	V	-0.352
44371.71698	V	-0.281	44378.69440	V	-0.358
44371.71902	V	-0.311	44378.69679	V	-0.350
44371.72134	V	-0.299	44378.69966	V	-0.344
44371.72479	V	-0.287	44378.70241	V	-0.348
44371.72751	V	-0.313	44378.70574	V	-0.331
44371.73074	V	-0.299	44378.71213	V	-0.341
44371.73311	V	-0.309	44378.71486	V	-0.373
44371.73570	V	-0.301	44378.71825	V	-0.310
44371.73817	V	-0.315	44380.58336	V	-0.258
44371.74140	V	-0.310	44380.58676	V	-0.268
44371.74382	V	-0.312	44380.59008	V	-0.261
44371.74617	V	-0.318	44380.59375	V	-0.274
44371.74846	V	-0.310	44380.59607	V	-0.267
44371.75061	V	-0.324	44380.59982	V	-0.268
44371.75786	V	-0.317	44380.60219	V	-0.278
44371.75995	V	-0.303	44380.60475	V	-0.265
44371.76242	V	-0.302	44380.60818	V	-0.262
44371.76470	V	-0.310	44380.61098	V	-0.269
44371.76696	V	-0.297	44380.61344	V	-0.252
44371.76917	V	-0.310	44380.61658	V	-0.269
44371.77158	V	-0.317	44380.62341	V	-0.272
44371.77382	V	-0.317	44380.62578	V	-0.262
44371.77614	V	-0.321	44380.63156	V	-0.271
44371.77814	V	-0.323	44380.63439	V	-0.272
44371.78237	V	-0.303	44380.64108	V	-0.268
44371.78445	V	-0.312	44380.64371	V	-0.262

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44380.64618	V	-0.272	44386.58865	V	-0.300
44380.65020	V	-0.279	44386.59311	V	-0.329
44380.65276	V	-0.269	44386.59752	V	-0.334
44380.65561	V	-0.274	44386.60042	V	-0.329
44380.66033	V	-0.272	44386.60429	V	-0.327
44380.66324	V	-0.279	44386.60680	V	-0.313
44380.66687	V	-0.271	44386.61150	V	-0.339
44380.67180	V	-0.271	44386.61435	V	-0.311
44380.67437	V	-0.269	44386.62012	V	-0.303
44380.67925	V	-0.286	44386.62709	V	-0.349
44384.58687	V	-0.266	44386.63125	V	-0.355
44384.58899	V	-0.262	44386.63866	V	-0.325
44384.59114	V	-0.270	44386.64236	V	-0.331
44384.59326	V	-0.279	44386.64676	V	-0.325
44384.59816	V	-0.266	44386.64993	V	-0.333
44384.60062	V	-0.262	44386.65306	V	-0.340
44384.60318	V	-0.319	44386.65626	V	-0.347
44384.60566	V	-0.288	44386.65982	V	-0.366
44384.60785	V	-0.296	44386.66559	V	-0.326
44384.61264	V	-0.263	44386.66917	V	-0.318
44384.61489	V	-0.263	44386.67280	V	-0.338
44384.61716	V	-0.271	44386.67646	V	-0.345
44384.62029	V	-0.265	44386.67964	V	-0.342
44384.62310	V	-0.244	44386.68346	V	-0.337
44384.62606	V	-0.241	44386.69067	V	-0.342
44384.62832	V	-0.250	44386.69479	V	-0.338
44384.63067	V	-0.237	44386.69845	V	-0.342
44384.63382	V	-0.254	44386.70491	V	-0.353
44384.63617	V	-0.270	44386.70794	V	-0.370
44384.64300	V	-0.274	44386.71131	V	-0.343
44384.64537	V	-0.271	44386.71245	V	-0.345
44384.64901	V	-0.264	44386.71609	V	-0.337
44384.65235	V	-0.256	44386.71933	V	-0.327
44384.65517	V	-0.275	44386.72709	V	-0.347
44384.65977	V	-0.261	44386.73114	V	-0.346
44384.66226	V	-0.256	44386.73553	V	-0.356
44384.66458	V	-0.241	44386.74081	V	-0.360
44384.66705	V	-0.250	44386.74569	V	-0.330
44384.66959	V	-0.268	44386.75008	V	-0.346
44384.67197	V	-0.264	44386.75515	V	-0.342
44384.67443	V	-0.274	44386.76049	V	-0.343
44384.67690	V	-0.254	44389.58487	V	-0.271
44384.68257	V	-0.246	44389.58948	V	-0.273
44384.68516	V	-0.259	44389.59262	V	-0.251
44384.68754	V	-0.261	44389.59705	V	-0.250
44384.69210	V	-0.261	44389.60028	V	-0.267
44384.69487	V	-0.265	44389.60372	V	-0.277
44384.69746	V	-0.244	44389.60871	V	-0.263
44384.70186	V	-0.237	44389.61182	V	-0.266
44384.70430	V	-0.266	44389.61526	V	-0.265
44384.70677	V	-0.251	44389.61955	V	-0.261
44384.70934	V	-0.267	44389.62256	V	-0.258
44384.71166	V	-0.336	44389.62926	V	-0.271
44384.74090	V	-0.213	44389.63351	V	-0.275
44384.74372	V	-0.197	44389.63655	V	-0.266

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44389.64859	V	−0.260	44390.70447	V	−0.314
44389.65160	V	−0.261	44390.70768	V	−0.299
44389.65456	V	−0.255	44390.71181	V	−0.322
44389.65889	V	−0.257	44390.71602	V	−0.293
44389.66186	V	−0.246	44390.71891	V	−0.279
44389.66518	V	−0.260	44390.72182	V	−0.291
44389.69090	V	−0.241	44390.72511	V	−0.281
44389.69445	V	−0.250	44390.72822	V	−0.291
44389.69820	V	−0.246	44390.73129	V	−0.292
44389.70143	V	−0.244	44390.73577	V	−0.275
44389.70571	V	−0.228	44390.73906	V	−0.297
44389.70879	V	−0.250	44390.74228	V	−0.276
44389.71185	V	−0.267	44390.74546	V	−0.281
44389.72329	V	−0.236	44390.74861	V	−0.275
44389.72770	V	−0.269	44391.61242	V	−0.363
44389.73203	V	−0.237	44391.61545	V	−0.337
44389.73523	V	−0.260	44391.63048	V	−0.366
44389.73844	V	−0.275	44391.63388	V	−0.363
44389.74145	V	−0.261	44391.63703	V	−0.354
44389.74444	V	−0.227	44391.64025	V	−0.346
44389.74834	V	−0.238	44391.64357	V	−0.366
44389.75327	V	−0.242	44391.66519	V	−0.376
44389.75904	V	−0.214	44391.67052	V	−0.367
44390.58907	V	−0.298	44391.67401	V	−0.371
44390.59488	V	−0.292	44391.67775	V	−0.375
44390.59556	V	−0.279	44391.68116	V	−0.372
44390.60405	V	−0.285	44391.68516	V	−0.342
44390.60722	V	−0.279	44391.69097	V	−0.361
44390.61165	V	−0.279	44391.69587	V	−0.357
44390.61470	V	−0.301	44391.69955	V	−0.334
44390.61771	V	−0.296	44391.70266	V	−0.362
44390.62085	V	−0.285	44391.70579	V	−0.376
44390.62467	V	−0.290	44391.70897	V	−0.375
44390.62896	V	−0.290	44391.71262	V	−0.363
44390.63284	V	−0.289	44391.71702	V	−0.370
44390.63582	V	−0.288	44391.72385	V	−0.386
44390.63909	V	−0.299	44391.72749	V	−0.368
44390.64355	V	−0.286	44391.73063	V	−0.329
44390.64671	V	−0.279	44394.58742	V	−0.223
44390.64974	V	−0.278	44394.59020	V	−0.210
44390.65297	V	−0.296	44394.59298	V	−0.198
44390.65634	V	−0.324	44394.59576	V	−0.212
44390.65957	V	−0.295	44394.59853	V	−0.213
44390.66261	V	−0.290	44394.60131	V	−0.212
44390.66595	V	−0.288	44394.60409	V	−0.185
44390.66920	V	−0.304	44394.60687	V	−0.210
44390.67404	V	−0.286	44394.60964	V	−0.209
44390.67710	V	−0.295	44394.61242	V	−0.191
44390.68025	V	−0.292	44394.61520	V	−0.201
44390.68375	V	−0.300	44394.61798	V	−0.203
44390.68696	V	−0.282	44394.62075	V	−0.193
44390.69157	V	−0.288	44394.62354	V	−0.175
44390.69507	V	−0.296	44394.62631	V	−0.160
44390.69835	V	−0.310	44394.62909	V	−0.147
44390.70138	V	−0.305	44394.63187	V	−0.190

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44394.63465	V	-0.180	44395.61907	V	-0.307
44394.64020	V	-0.171	44395.62211	V	-0.297
44394.64298	V	-0.166	44395.62557	V	-0.311
44394.64575	V	-0.190	44395.62870	V	-0.305
44394.64853	V	-0.183	44395.63176	V	-0.312
44394.65154	V	-0.203	44395.63604	V	-0.297
44394.65357	V	-0.189	44395.63914	V	-0.314
44394.65686	V	-0.157	44395.64222	V	-0.307
44394.65964	V	-0.160	44395.64562	V	-0.298
44394.66230	V	-0.172	44395.64884	V	-0.297
44394.66520	V	-0.210	44395.65229	V	-0.313
44394.66797	V	-0.184	44395.65559	V	-0.299
44394.67075	V	-0.172	44395.66405	V	-0.306
44394.67353	V	-0.166	44395.66722	V	-0.289
44394.67631	V	-0.154	44395.67049	V	-0.314
44394.67908	V	-0.151	44395.67966	V	-0.307
44394.68186	V	-0.171	44395.68290	V	-0.312
44394.68464	V	-0.185	44395.68627	V	-0.301
44394.68741	V	-0.179	44395.68952	V	-0.295
44394.69021	V	-0.185	44225.91059	B	-0.200
44394.69305	V	-0.185	44225.91337	B	-0.205
44394.69853	V	-0.184	44225.91614	B	-0.199
44394.70130	V	-0.155	44225.91892	B	-0.203
44394.70408	V	-0.170	44225.92204	B	-0.198
44394.70686	V	-0.170	44225.92466	B	-0.206
44394.70972	V	-0.170	44225.92728	B	-0.215
44394.71519	V	-0.163	44225.93003	B	-0.196
44394.71797	V	-0.179	44225.93281	B	-0.185
44394.72075	V	-0.158	44225.93559	B	-0.192
44394.72353	V	-0.160	44225.93837	B	-0.211
44394.72630	V	-0.161	44225.94114	B	-0.204
44394.72908	V	-0.158	44225.94396	B	-0.201
44394.73186	V	-0.175	44225.94950	B	-0.192
44394.73464	V	-0.171	44225.95227	B	-0.198
44394.73741	V	-0.172	44225.95503	B	-0.203
44394.74031	V	-0.165	44259.78048	B	-0.184
44394.74297	V	-0.158	44259.78325	B	-0.160
44394.74575	V	-0.167	44259.78602	B	-0.169
44394.74852	V	-0.159	44259.78880	B	-0.172
44394.75130	V	-0.147	44259.79158	B	-0.172
44394.75408	V	-0.173	44259.79436	B	-0.168
44394.75686	V	-0.182	44259.79714	B	-0.174
44394.75969	V	-0.189	44259.79991	B	-0.177
44394.76241	V	-0.166	44259.80269	B	-0.172
44394.76519	V	-0.181	44259.80552	B	-0.175
44394.76798	V	-0.190	44259.80825	B	-0.176
44394.77080	V	-0.190	44259.81103	B	-0.175
44394.77352	V	-0.175	44259.81380	B	-0.173
44394.77633	V	-0.192	44259.81658	B	-0.165
44394.77909	V	-0.191	44259.81936	B	-0.172
44394.78185	V	-0.159	44259.82216	B	-0.176
44394.78464	V	-0.180	44259.82489	B	-0.167
44394.78741	V	-0.189	44259.83326	B	-0.163
44394.79019	V	-0.184	44259.83606	B	-0.169
44394.79299	V	-0.169	44259.84158	B	-0.177

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HELIO. J.D.	FILTER	V-C
44259.84437	B	-0.178
44259.84715	B	-0.162
44259.84992	B	-0.159
44259.85275	B	-0.163
44259.85553	B	-0.172
44259.85833	B	-0.161
44259.86103	B	-0.162
44259.86382	B	-0.171
44259.86658	B	-0.171
44259.86936	B	-0.164
44259.87213	B	-0.174
44259.87492	B	-0.174
44259.88047	B	-0.160
44259.88324	B	-0.163
44259.88602	B	-0.162
44259.88881	B	-0.157
44259.89163	B	-0.149
44259.89436	B	-0.168
44259.89721	B	-0.169
44259.90020	B	-0.158
44259.90268	B	-0.163
44259.90548	B	-0.165
44259.90825	B	-0.148
44259.91103	B	-0.157
44259.91381	B	-0.166
44259.91657	B	-0.149
44259.91937	B	-0.147
44259.92214	B	-0.148
44259.92493	B	-0.157
44259.92770	B	-0.160
44259.93055	B	-0.157
44259.93327	B	-0.171
44259.93603	B	-0.147
44259.93881	B	-0.154
44259.94159	B	-0.159
44259.94437	B	-0.160
44259.94715	B	-0.147
44259.94992	B	-0.156
44259.95270	B	-0.156
44259.95546	B	-0.145
44259.95826	B	-0.159
44262.76191	B	1.058
44262.76469	B	1.044
44262.76747	B	1.027
44262.77025	B	1.121
44262.77303	B	1.258
44262.77580	B	0.965
44262.77858	B	1.033
44262.78138	B	1.067
44262.78414	B	1.080
44262.78696	B	1.121
44262.80113	B	1.293
44262.80439	B	0.962
44262.84802	B	1.071
44262.85081	B	1.056
44262.85359	B	1.078
44262.85636	B	1.087
44262.85914	B	1.084
44262.86192	B	1.087
44262.86470	B	1.082
44262.86750	B	1.062
44262.87030	B	1.071
44262.87303	B	1.071
44262.87582	B	1.065
44262.87859	B	1.056
44262.88137	B	1.056
44262.88414	B	1.083
44262.88693	B	1.060
44262.88970	B	1.050
44262.89248	B	1.048
44262.89527	B	1.041
44262.89803	B	1.001
44262.90081	B	0.978
44262.90359	B	0.962
44262.90637	B	0.939
44262.90915	B	0.920
44262.91196	B	0.880
44262.91470	B	0.856
44262.91748	B	0.843
44262.92026	B	0.806
44262.92304	B	0.771
44262.92582	B	0.749
44262.92858	B	0.720
44262.93137	B	0.691
44262.93418	B	0.647
44262.93692	B	0.615
44262.93970	B	0.591
44262.94248	B	0.567
44262.94629	B	0.516
44262.95085	B	0.478
44262.95359	B	0.451
44262.95638	B	0.416
44262.95915	B	0.398
44262.96193	B	0.372
44262.96470	B	0.343
44262.96748	B	0.303
44262.97026	B	0.285
44262.97303	B	0.254
44268.78034	B	-0.217
44268.78312	B	-0.212
44268.78590	B	-0.208
44268.78868	B	-0.201
44268.79145	B	-0.206
44268.79423	B	-0.221
44268.79701	B	-0.223
44268.79979	B	-0.197
44268.80257	B	-0.202
44268.80544	B	-0.216
44268.80812	B	-0.219
44268.81090	B	-0.210

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44268.81368	B	-0.211	44273.72507	B	-0.238
44268.81648	B	-0.199	44273.72788	B	-0.230
44268.81923	B	-0.218	44273.73063	B	-0.234
44268.82202	B	-0.207	44273.73340	B	-0.221
44268.82480	B	-0.220	44273.73624	B	-0.218
44268.82757	B	-0.211	44273.74174	B	-0.183
44268.83035	B	-0.208	44273.74452	B	-0.201
44268.83312	B	-0.212	44273.74729	B	-0.217
44268.83590	B	-0.213	44273.75007	B	-0.216
44268.83868	B	-0.202	44273.75285	B	-0.213
44268.84146	B	-0.197	44273.75566	B	-0.224
44268.84424	B	-0.206	44273.75843	B	-0.184
44268.84701	B	-0.210	44273.76118	B	-0.206
44268.84979	B	-0.204	44273.76396	B	-0.210
44268.85260	B	-0.208	44273.76674	B	-0.215
44268.85535	B	-0.197	44273.76974	B	-0.187
44268.85812	B	-0.198	44273.77232	B	-0.184
44268.86089	B	-0.199	44273.77507	B	-0.155
44268.86368	B	-0.204	44273.77785	B	-0.198
44268.86646	B	-0.203	44273.78062	B	-0.204
44268.86924	B	-0.200	44273.78359	B	-0.231
44268.87203	B	-0.183	44273.78618	B	-0.126
44268.87479	B	-0.197	44273.78896	B	-0.217
44268.87757	B	-0.196	44273.79452	B	-0.198
44268.88036	B	-0.202	44273.79730	B	-0.190
44268.88328	B	-0.209	44273.80007	B	-0.186
44268.88590	B	-0.209	44273.80285	B	-0.196
44268.88868	B	-0.194	44273.80563	B	-0.187
44268.89146	B	-0.209	44273.80841	B	-0.197
44268.89427	B	-0.195	44273.81119	B	-0.202
44268.89704	B	-0.199	44273.81396	B	-0.193
44268.89979	B	-0.201	44273.81674	B	-0.189
44268.90257	B	-0.203	44273.81954	B	-0.191
44268.90535	B	-0.201	44273.82231	B	-0.185
44268.90813	B	-0.198	44273.82505	B	-0.185
44268.91091	B	-0.191	44273.82785	B	-0.185
44268.91368	B	-0.204	44273.83063	B	-0.175
44268.91646	B	-0.209	44273.83342	B	-0.174
44268.91924	B	-0.207	44273.83624	B	-0.187
44268.92203	B	-0.196	44273.83895	B	-0.206
44268.92502	B	-0.205	44273.84174	B	-0.191
44268.92757	B	-0.206	44273.84452	B	-0.196
44268.93035	B	-0.197	44273.84731	B	-0.195
44268.93313	B	-0.195	44273.85008	B	-0.187
44268.93591	B	-0.190	44273.85290	B	-0.181
44268.93869	B	-0.202	44273.85563	B	-0.183
44268.94146	B	-0.186	44273.85840	B	-0.201
44268.94424	B	-0.200	44273.86107	B	-0.191
44268.94702	B	-0.202	44273.86397	B	-0.178
44268.94980	B	-0.188	44273.86686	B	-0.176
44268.95257	B	-0.195	44273.86952	B	-0.183
44268.95535	B	-0.193	44273.87237	B	-0.176
44268.95813	B	-0.201	44273.87507	B	-0.178
44268.96091	B	-0.191	44273.87784	B	-0.185
44273.72229	B	-0.214	44273.88065	B	-0.188

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44273.88348	B	-0.198	44274.85638	B	-0.118
44273.88624	B	-0.186	44274.85916	B	-0.094
44273.88898	B	-0.185	44274.86195	B	-0.094
44273.89177	B	-0.190	44274.86472	B	-0.089
44273.89499	B	-0.189	44274.86749	B	-0.098
44274.71749	B	-0.108	44274.87027	B	-0.092
44274.72027	B	-0.103	44274.87305	B	-0.092
44274.72304	B	-0.101	44274.87583	B	-0.084
44274.72582	B	-0.102	44274.87860	B	-0.097
44274.72860	B	-0.078	44274.88153	B	-0.080
44274.73137	B	-0.089	44274.88416	B	-0.098
44274.73415	B	-0.091	44274.88700	B	-0.087
44274.73693	B	-0.092	44274.89248	B	-0.094
44274.73971	B	-0.087	44274.89527	B	-0.087
44274.74249	B	-0.094	44274.89805	B	-0.094
44274.74526	B	-0.084	44274.90085	B	-0.094
44274.74810	B	-0.085	44274.90364	B	-0.101
44274.75082	B	-0.087	44274.90638	B	-0.103
44274.75360	B	-0.098	44274.90922	B	-0.101
44274.75638	B	-0.080	44274.91196	B	-0.098
44274.75915	B	-0.076	44274.91473	B	-0.114
44274.76193	B	-0.074	44274.91750	B	-0.111
44274.76471	B	-0.087	44274.92024	B	-0.114
44274.76746	B	-0.091	44274.92306	B	-0.120
44274.77035	B	-0.092	44274.92583	B	-0.108
44274.77304	B	-0.083	44274.92861	B	-0.111
44274.77582	B	-0.085	44274.93139	B	-0.117
44274.77860	B	-0.081	44274.93416	B	-0.107
44274.78138	B	-0.075	44274.93694	B	-0.103
44274.78416	B	-0.085	44274.93972	B	-0.101
44274.78693	B	-0.080	44274.94253	B	-0.113
44274.78972	B	-0.081	44274.94527	B	-0.113
44274.79249	B	-0.087	44274.94805	B	-0.111
44274.79527	B	-0.092	44274.95083	B	-0.111
44274.79804	B	-0.092	44274.95361	B	-0.111
44274.80082	B	-0.078	44274.95639	B	-0.127
44274.80367	B	-0.070	44274.95918	B	-0.107
44274.80638	B	-0.085	44274.96194	B	-0.109
44274.80921	B	-0.088	44274.96472	B	-0.082
44274.81193	B	-0.089	44274.96750	B	-0.116
44274.81471	B	-0.074	44275.72449	B	-0.169
44274.81749	B	-0.074	44275.72726	B	-0.175
44274.82028	B	-0.079	44275.73004	B	-0.175
44274.82307	B	-0.075	44275.73282	B	-0.183
44274.82597	B	-0.080	44275.73562	B	-0.175
44274.82860	B	-0.088	44275.73837	B	-0.175
44274.83138	B	-0.079	44275.74115	B	-0.182
44274.83416	B	-0.079	44275.74394	B	-0.167
44274.83694	B	-0.082	44275.74671	B	-0.172
44274.83971	B	-0.084	44275.74962	B	-0.177
44274.84249	B	-0.082	44275.75226	B	-0.168
44274.84527	B	-0.081	44275.75504	B	-0.162
44274.84805	B	-0.077	44275.75782	B	-0.166
44274.85083	B	-0.091	44275.76060	B	-0.177
44274.85349	B	-0.111	44275.76337	B	-0.177

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44275.76615	B	-0.164	44276.90510	B	-0.237
44275.76893	B	-0.189	44276.90788	B	-0.233
44275.77171	B	-0.175	44276.91066	B	-0.234
44275.77449	B	-0.172	44276.91343	B	-0.226
44276.76344	B	-0.231	44276.91621	B	-0.239
44276.76620	B	-0.220	44276.91907	B	-0.227
44276.76897	B	-0.228	44276.92178	B	-0.223
44276.77176	B	-0.219	44276.92455	B	-0.220
44276.77454	B	-0.215	44276.92732	B	-0.225
44276.77732	B	-0.217	44276.93010	B	-0.236
44276.78009	B	-0.205	44276.93288	B	-0.231
44276.78287	B	-0.223	44276.93566	B	-0.226
44276.78565	B	-0.217	44276.93844	B	-0.216
44276.78843	B	-0.223	44276.94121	B	-0.213
44276.79121	B	-0.226	44276.94399	B	-0.213
44276.79400	B	-0.233	44276.94677	B	-0.207
44276.79676	B	-0.235	44276.94955	B	-0.202
44276.79954	B	-0.230	44276.95233	B	-0.207
44276.80232	B	-0.228	44276.95509	B	-0.192
44276.80510	B	-0.228	44277.73474	B	-0.230
44276.80787	B	-0.218	44277.73719	B	-0.265
44276.81065	B	-0.221	44277.73987	B	-0.269
44276.81344	B	-0.227	44277.74264	B	-0.256
44276.81621	B	-0.229	44277.74542	B	-0.263
44276.81899	B	-0.220	44277.74822	B	-0.251
44276.82176	B	-0.216	44277.75376	B	-0.255
44276.82454	B	-0.216	44277.75654	B	-0.250
44276.82732	B	-0.229	44277.75931	B	-0.267
44276.83010	B	-0.231	44277.76209	B	-0.267
44276.83287	B	-0.216	44277.76489	B	-0.260
44276.83565	B	-0.217	44277.76764	B	-0.268
44276.83843	B	-0.223	44277.77042	B	-0.254
44276.84121	B	-0.227	44277.77320	B	-0.247
44276.84399	B	-0.224	44277.77615	B	-0.239
44276.84676	B	-0.224	44277.77881	B	-0.246
44276.84954	B	-0.236	44277.78153	B	-0.255
44276.85234	B	-0.224	44277.78431	B	-0.250
44276.85514	B	-0.227	44277.78714	B	-0.246
44276.85788	B	-0.233	44277.78988	B	-0.243
44276.86065	B	-0.232	44277.79277	B	-0.250
44276.86343	B	-0.231	44277.79820	B	-0.254
44276.86621	B	-0.223	44277.80098	B	-0.246
44276.86899	B	-0.232	44277.80378	B	-0.243
44276.87177	B	-0.232	44277.80654	B	-0.229
44276.87454	B	-0.227	44277.80931	B	-0.242
44276.87732	B	-0.225	44277.81210	B	-0.255
44276.88010	B	-0.229	44277.81487	B	-0.256
44276.88288	B	-0.220	44289.81123	B	-0.174
44276.88566	B	-0.218	44289.81401	B	-0.187
44276.88846	B	-0.226	44289.81679	B	-0.182
44276.89121	B	-0.226	44289.81956	B	-0.167
44276.89373	B	-0.233	44289.82235	B	-0.147
44276.89677	B	-0.236	44289.82512	B	-0.163
44276.89954	B	-0.215	44289.82790	B	-0.168
44276.90232	B	-0.226	44289.83068	B	-0.165

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44289.83346	B	-0.161	44291.70436	B	0.788
44289.83623	B	-0.159	44291.70721	B	0.790
44289.83901	B	-0.162	44291.70991	B	0.757
44289.84181	B	-0.165	44291.71269	B	0.714
44289.84457	B	-0.166	44291.71547	B	0.715
44289.84735	B	-0.163	44291.71825	B	0.667
44289.85012	B	-0.173	44291.72103	B	0.656
44289.85294	B	-0.166	44291.72380	B	0.595
44289.85568	B	-0.151	44291.72658	B	0.589
44289.85846	B	-0.140	44291.72936	B	0.536
44289.86132	B	-0.157	44291.73214	B	0.528
44289.86401	B	-0.140	44291.73491	B	0.471
44289.86679	B	-0.104	44291.73769	B	0.469
44289.86956	B	-0.143	44291.74047	B	0.424
44289.87235	B	-0.156	44291.74325	B	0.399
44290.70432	B	-0.223	44291.74603	B	0.384
44290.70710	B	-0.230	44291.74880	B	0.364
44290.70988	B	-0.198	44291.75158	B	0.309
44290.71266	B	-0.226	44291.75436	B	0.289
44290.71545	B	-0.213	44291.75714	B	0.278
44290.71821	B	-0.228	44291.75992	B	0.253
44290.72099	B	-0.212	44291.76269	B	0.236
44290.72377	B	-0.213	44291.76547	B	0.198
44290.72655	B	-0.169	44291.76825	B	0.166
44290.72932	B	-0.180	44291.77103	B	0.155
44290.73210	B	-0.213	44291.77380	B	0.141
44290.73489	B	-0.210	44291.77671	B	0.097
44290.73766	B	-0.216	44291.77936	B	0.086
44290.74043	B	-0.256	44291.78214	B	0.070
44290.74321	B	-0.189	44291.78492	B	0.027
44290.74599	B	-0.209	44291.78769	B	0.012
44290.74877	B	-0.197	44291.79047	B	0.031
44290.75155	B	-0.212	44291.79325	B	-0.007
44290.75432	B	-0.192	44291.79603	B	-0.045
44290.75710	B	-0.193	44291.80157	B	-0.069
44290.75988	B	-0.204	44291.80436	B	-0.052
44290.76266	B	-0.196	44291.80714	B	-0.084
44290.76544	B	-0.191	44291.80992	B	-0.084
44290.76821	B	-0.191	44291.81270	B	-0.105
44290.77099	B	-0.218	44291.81547	B	-0.119
44290.77377	B	-0.230	44291.81826	B	-0.119
44290.77655	B	-0.222	44291.82103	B	-0.133
44290.77933	B	-0.210	44291.82381	B	-0.130
44290.78211	B	-0.216	44291.82660	B	-0.154
44290.78492	B	-0.226	44291.82936	B	-0.173
44290.78769	B	-0.216	44291.83214	B	-0.196
44290.79044	B	-0.196	44291.83493	B	-0.193
44290.79321	B	-0.179	44291.83770	B	-0.226
44290.79599	B	-0.215	44291.84047	B	-0.203
44290.79877	B	-0.170	44291.84325	B	-0.222
44291.69047	B	1.169	44291.84604	B	-0.224
44291.69325	B	0.887	44291.84881	B	-0.229
44291.69602	B	0.916	44291.85164	B	-0.237
44291.69880	B	0.823	44291.85436	B	-0.240
44291.70158	B	0.832	44291.85714	B	-0.244

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44291.85992	B	-0.251	44298.67402	B	-0.126
44291.86271	B	-0.245	44298.67680	B	-0.087
44291.86550	B	-0.251	44298.67957	B	-0.084
44291.86826	B	-0.250	44298.68235	B	-0.086
44291.87103	B	-0.269	44298.68513	B	-0.095
44291.87383	B	-0.226	44298.68791	B	-0.106
44291.87673	B	-0.258	44298.69067	B	-0.101
44291.87936	B	-0.240	44298.69346	B	-0.098
44291.88214	B	-0.237	44298.69624	B	-0.088
44291.88492	B	-0.260	44298.69902	B	-0.098
44291.88770	B	-0.240	44298.70180	B	-0.106
44291.89048	B	-0.246	44298.70457	B	-0.087
44291.89325	B	-0.250	44298.70735	B	-0.084
44291.89605	B	-0.250	44298.71001	B	-0.083
44291.89881	B	-0.269	44298.71291	B	-0.091
44291.90159	B	-0.245	44298.71569	B	-0.076
44291.90439	B	-0.244	44298.71846	B	-0.083
44291.90714	B	-0.264	44298.72124	B	-0.095
44291.90992	B	-0.241	44298.72402	B	-0.088
44291.91270	B	-0.240	44298.72957	B	-0.125
44291.91548	B	-0.260	44298.73235	B	-0.087
44291.91825	B	-0.277	44298.73513	B	-0.078
44291.92103	B	-0.238	44298.73791	B	-0.086
44291.92381	B	-0.225	44298.74069	B	-0.093
44291.92659	B	-0.240	44298.74348	B	-0.079
44291.92937	B	-0.244	44298.74624	B	-0.081
44291.93214	B	-0.240	44298.74902	B	-0.083
44291.93492	B	-0.238	44298.75180	B	-0.094
44291.93770	B	-0.237	44298.75458	B	-0.095
44291.94048	B	-0.256	44298.75735	B	-0.076
44291.94326	B	-0.244	44298.76012	B	-0.083
44291.94603	B	-0.255	44298.76291	B	-0.072
44291.94881	B	-0.267	44298.76569	B	-0.088
44292.66828	B	-0.228	44298.76851	B	-0.076
44292.67106	B	-0.232	44298.77127	B	-0.055
44292.67384	B	-0.249	44298.77402	B	-0.092
44292.67661	B	-0.249	44298.77680	B	-0.077
44292.67939	B	-0.237	44298.77959	B	-0.080
44292.68217	B	-0.234	44298.78237	B	-0.071
44292.68495	B	-0.232	44298.78513	B	-0.088
44292.68773	B	-0.223	44298.78791	B	-0.086
44292.69050	B	-0.310	44298.79069	B	-0.085
44292.69334	B	-0.249	44298.79350	B	-0.076
44296.86425	B	-0.247	44298.79624	B	-0.090
44296.86702	B	-0.252	44298.79902	B	-0.093
44296.86980	B	-0.254	44298.80179	B	-0.078
44296.87258	B	-0.265	44298.80458	B	-0.100
44296.87536	B	-0.242	44298.80737	B	-0.082
44296.87813	B	-0.224	44298.81013	B	-0.077
44298.65735	B	-0.112	44298.81292	B	-0.059
44298.66013	B	-0.119	44298.81569	B	-0.146
44298.66291	B	-0.099	44298.84347	B	-0.105
44298.66568	B	-0.113	44298.84624	B	-0.091
44298.66846	B	-0.119	44298.85180	B	-0.120
44298.67124	B	-0.103	44298.85458	B	-0.097

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44298.85736	B	-0.094	44302.75273	B	-0.168
44298.86015	B	-0.092	44302.75685	B	-0.170
44298.86291	B	-0.097	44302.75954	B	-0.173
44298.86569	B	-0.096	44302.76222	B	-0.162
44298.86847	B	-0.104	44302.76502	B	-0.165
44298.87124	B	-0.117	44302.76810	B	-0.179
44298.87402	B	-0.093	44302.77269	B	-0.163
44298.87680	B	-0.103	44302.77613	B	-0.164
44298.87958	B	-0.110	44302.78061	B	-0.166
44298.88270	B	-0.104	44302.78336	B	-0.177
44298.88513	B	-0.116	44302.78336	B	-0.177
44298.88791	B	-0.103	44302.78713	B	-0.170
44298.89069	B	-0.100	44302.78713	B	-0.170
44298.89347	B	-0.101	44302.79382	B	-0.178
44298.89625	B	-0.115	44302.79644	B	-0.181
44298.89902	B	-0.110	44302.79928	B	-0.155
44298.90180	B	-0.115	44302.80194	B	-0.188
44298.90461	B	-0.127	44302.80439	B	-0.151
44298.90737	B	-0.124	44302.80704	B	-0.144
44298.91013	B	-0.111	44302.80975	B	-0.167
44298.91291	B	-0.156	44302.81235	B	-0.157
44298.91856	B	-0.141	44302.81613	B	-0.179
44302.64122	B	-0.194	44302.81853	B	-0.137
44302.64522	B	-0.188	44302.82144	B	-0.149
44302.65010	B	-0.184	44302.82476	B	-0.150
44302.65281	B	-0.170	44302.82750	B	-0.178
44302.65755	B	-0.171	44302.83004	B	-0.162
44302.66115	B	-0.186	44302.83310	B	-0.187
44302.66395	B	-0.186	44302.83570	B	-0.177
44302.66675	B	-0.168	44302.85613	B	-0.161
44302.67091	B	-0.173	44302.85978	B	-0.167
44302.67461	B	-0.196	44302.86323	B	-0.167
44302.67851	B	-0.192	44302.86598	B	-0.180
44302.68143	B	-0.201	44302.86897	B	-0.176
44302.68504	B	-0.184	44302.87352	B	-0.145
44302.68763	B	-0.185	44302.87815	B	-0.190
44302.69006	B	-0.174	44302.88122	B	-0.181
44302.69395	B	-0.181	44302.88604	B	-0.147
44302.69666	B	-0.164	44302.88860	B	-0.182
44302.69926	B	-0.169	44302.89137	B	-0.165
44302.70180	B	-0.176	44302.89403	B	-0.172
44302.70480	B	-0.180	44302.89666	B	-0.151
44302.71047	B	-0.202	44302.89987	B	-0.166
44302.71340	B	-0.191	44302.90480	B	-0.146
44302.71634	B	-0.191	44302.90749	B	-0.170
44302.71947	B	-0.196	44302.91017	B	-0.178
44302.72298	B	-0.168	44302.91339	B	-0.196
44302.72561	B	-0.157	44302.91664	B	-0.155
44302.73040	B	-0.173	44302.92055	B	-0.178
44302.73381	B	-0.173	44302.92384	B	-0.176
44302.73656	B	-0.187	44302.92661	B	-0.165
44302.73949	B	-0.181	44302.92942	B	-0.177
44302.74211	B	-0.154	44302.93219	B	-0.146
44302.74549	B	-0.187	44302.93496	B	-0.179
44302.74881	B	-0.185	44302.93745	B	-0.183

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44302.94001	B	-0.157	44320.86825	B	-0.235
44320.67744	B	-0.247	44320.87172	B	-0.255
44320.67971	B	-0.233	44320.87418	B	-0.260
44320.68198	B	-0.226	44320.87653	B	-0.232
44320.68419	B	-0.235	44320.87886	B	-0.229
44320.68637	B	-0.245	44320.88123	B	-0.239
44320.68971	B	-0.247	44320.88339	B	-0.259
44320.69243	B	-0.232	44320.88706	B	-0.222
44320.69482	B	-0.232	44320.88959	B	-0.244
44320.69711	B	-0.242	44320.89203	B	-0.239
44320.70029	B	-0.257	44335.60744	B	-0.226
44320.70251	B	-0.254	44335.61021	B	-0.230
44320.70479	B	-0.242	44335.61299	B	-0.222
44320.70698	B	-0.232	44335.61577	B	-0.208
44320.71036	B	-0.247	44335.61855	B	-0.221
44320.71257	B	-0.260	44335.62133	B	-0.220
44320.71490	B	-0.233	44335.62410	B	-0.220
44320.71779	B	-0.228	44335.64077	B	-0.211
44320.72118	B	-0.256	44335.64355	B	-0.238
44320.72347	B	-0.249	44335.64632	B	-0.221
44320.72616	B	-0.244	44335.64910	B	-0.234
44320.72846	B	-0.240	44335.65188	B	-0.230
44320.73092	B	-0.256	44335.65466	B	-0.222
44320.73437	B	-0.255	44335.65744	B	-0.230
44320.73676	B	-0.254	44335.66021	B	-0.228
44320.73968	B	-0.255	44335.66299	B	-0.221
44320.74242	B	-0.249	44335.66577	B	-0.235
44320.74494	B	-0.242	44335.66855	B	-0.220
44320.74942	B	-0.239	44335.67132	B	-0.220
44320.76292	B	-0.237	44335.67418	B	-0.217
44320.76540	B	-0.251	44335.67688	B	-0.215
44320.76842	B	-0.238	44335.67966	B	-0.229
44320.77106	B	-0.235	44335.68243	B	-0.225
44320.77351	B	-0.243	44335.68521	B	-0.211
44320.77599	B	-0.241	44335.68799	B	-0.208
44320.78379	B	-0.238	44335.69077	B	-0.227
44320.78645	B	-0.234	44335.69355	B	-0.225
44320.78908	B	-0.255	44335.69632	B	-0.216
44320.79172	B	-0.229	44335.69910	B	-0.202
44320.79493	B	-0.236	44335.70188	B	-0.192
44320.79734	B	-0.231	44335.70464	B	-0.210
44320.79991	B	-0.241	44335.70745	B	-0.223
44320.83442	B	-0.254	44335.71022	B	-0.236
44320.83676	B	-0.245	44335.71299	B	-0.223
44320.83922	B	-0.228	44335.71577	B	-0.234
44320.84162	B	-0.244	44335.71855	B	-0.216
44320.84383	B	-0.234	44335.72132	B	-0.218
44320.84600	B	-0.257	44335.72410	B	-0.221
44320.84827	B	-0.253	44335.72688	B	-0.210
44320.85092	B	-0.236	44335.72966	B	-0.223
44320.85366	B	-0.221	44335.73243	B	-0.236
44320.85611	B	-0.248	44335.73521	B	-0.214
44320.85857	B	-0.222	44335.73799	B	-0.214
44320.86183	B	-0.240	44335.74077	B	-0.219
44320.86478	B	-0.238	44335.74354	B	-0.220

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44335.75187	B	-0.214	44340.58062	B	-0.224
44335.75466	B	-0.201	44340.58309	B	-0.222
44335.75743	B	-0.232	44340.58544	B	-0.225
44335.76021	B	-0.199	44340.64937	B	-0.212
44335.76299	B	-0.204	44340.65167	B	-0.215
44335.76577	B	-0.192	44340.65421	B	-0.195
44335.79291	B	-0.206	44340.65679	B	-0.202
44335.79522	B	-0.225	44340.65921	B	-0.200
44335.79764	B	-0.202	44340.66208	B	-0.205
44335.81095	B	-0.195	44340.66619	B	-0.204
44335.81327	B	-0.211	44340.66876	B	-0.208
44335.81564	B	-0.201	44340.67104	B	-0.223
44335.81866	B	-0.227	44340.67424	B	-0.205
44335.82122	B	-0.227	44340.67664	B	-0.214
44335.82390	B	-0.226	44340.67939	B	-0.201
44335.82619	B	-0.197	44340.68283	B	-0.194
44335.82898	B	-0.227	44340.68539	B	-0.193
44339.57401	B	1.093	44340.68851	B	-0.193
44339.57678	B	1.072	44340.69126	B	-0.204
44339.57956	B	1.074	44340.69403	B	-0.211
44339.58234	B	1.089	44340.69743	B	-0.232
44339.58512	B	1.072	44340.70040	B	-0.226
44339.58790	B	1.081	44340.70385	B	-0.211
44339.59067	B	1.093	44340.70682	B	-0.185
44339.59345	B	1.082	44340.70957	B	-0.181
44339.59623	B	1.071	44341.58721	B	-0.125
44339.59901	B	1.075	44341.58956	B	-0.172
44339.60178	B	1.075	44341.59218	B	-0.154
44339.60456	B	1.071	44341.59464	B	-0.135
44339.60734	B	1.090	44341.61526	B	-0.151
44339.61012	B	1.062	44341.61771	B	-0.133
44339.61289	B	1.081	44341.62125	B	-0.147
44339.61567	B	1.101	44341.62364	B	-0.151
44339.61845	B	1.073	44341.62609	B	-0.182
44339.62123	B	1.093	44341.62856	B	-0.137
44339.62401	B	1.070	44341.63074	B	-0.178
44339.62678	B	1.068	44341.63300	B	-0.161
44339.62957	B	1.093	44341.63534	B	-0.176
44339.63234	B	1.070	44341.63874	B	-0.149
44339.63512	B	1.068	44341.71764	B	-0.134
44339.63789	B	1.096	44341.72022	B	-0.143
44339.64067	B	1.100	44341.72253	B	-0.149
44339.64345	B	1.081	44341.72704	B	-0.151
44339.64623	B	1.085	44341.73478	B	-0.158
44339.64900	B	1.082	44341.73726	B	-0.132
44339.65178	B	1.082	44341.73969	B	-0.120
44339.65456	B	1.074	44341.74216	B	-0.114
44339.65734	B	1.052	44341.74476	B	-0.150
44339.66012	B	1.035	44341.74713	B	-0.133
44339.66294	B	1.028	44341.74951	B	-0.146
44339.66567	B	0.979	44341.75205	B	-0.142
44339.66845	B	0.960	44341.75500	B	-0.139
44339.67123	B	0.921	44341.75730	B	-0.142
44340.57566	B	-0.222	44341.76031	B	-0.139
44340.57812	B	-0.219	44341.76282	B	-0.141

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44341.76542	B	-0.137	44351.66665	B	-0.081
44350.64518	B	-0.169	44351.66943	B	-0.106
44350.64760	B	-0.172	44351.67221	B	-0.110
44350.65018	B	-0.200	44351.67510	B	-0.122
44350.65375	B	-0.199	44351.67776	B	-0.086
44350.65621	B	-0.186	44351.68056	B	-0.159
44350.68606	B	-0.185	44351.68332	B	-0.112
44350.68853	B	-0.184	44351.69168	B	-0.137
44350.69272	B	-0.192	44351.69443	B	-0.100
44350.70468	B	-0.169	44351.69721	B	-0.123
44350.70734	B	-0.161	44351.69999	B	-0.130
44350.70989	B	-0.165	44351.70276	B	-0.125
44350.71263	B	-0.171	44351.70554	B	-0.089
44350.71536	B	-0.185	44351.70832	B	-0.148
44350.71939	B	-0.174	44351.71110	B	-0.043
44350.72213	B	-0.160	44351.71387	B	-0.122
44351.55285	B	-0.088	44351.71665	B	-0.133
44351.55555	B	-0.044	44351.71943	B	-0.147
44351.55832	B	-0.075	44351.72223	B	-0.153
44351.56110	B	-0.088	44351.72498	B	-0.127
44351.56388	B	-0.114	44351.72776	B	-0.136
44351.56666	B	-0.082	44351.73054	B	-0.158
44351.56943	B	-0.077	44351.73332	B	-0.146
44351.57221	B	-0.079	44351.73611	B	-0.141
44351.57499	B	-0.112	44351.73887	B	-0.129
44351.57777	B	-0.096	44351.74165	B	-0.142
44351.58055	B	-0.114	44351.74453	B	-0.123
44351.58332	B	-0.072	44351.74721	B	-0.141
44351.58610	B	-0.084	44351.74998	B	-0.142
44351.58888	B	-0.062	44351.75276	B	-0.149
44351.59166	B	-0.059	44351.75561	B	-0.120
44351.59443	B	-0.065	44351.75832	B	-0.156
44351.59732	B	-0.072	44351.76109	B	-0.134
44351.59999	B	-0.109	44351.76387	B	-0.162
44351.60554	B	-0.129	44351.76671	B	-0.167
44351.60832	B	-0.078	44351.76943	B	-0.148
44351.61110	B	-0.071	44351.77220	B	-0.176
44351.61388	B	-0.068	44351.77510	B	-0.181
44351.61666	B	-0.088	44351.77776	B	-0.160
44351.61943	B	-0.095	44351.78077	B	-0.117
44351.62221	B	-0.141	44351.78331	B	-0.125
44351.62507	B	-0.089	44351.78610	B	-0.141
44351.63054	B	-0.109	44351.78887	B	-0.129
44351.63388	B	-0.154	44351.79165	B	-0.119
44351.63610	B	-0.122	44351.79443	B	-0.166
44351.63888	B	-0.114	44351.79720	B	-0.137
44351.64165	B	-0.128	44351.79998	B	-0.143
44351.64443	B	-0.141	44351.80276	B	-0.111
44351.64722	B	-0.073	44351.80554	B	-0.157
44351.64999	B	-0.096	44351.80833	B	-0.158
44351.65276	B	-0.083	44366.61890	B	-0.186
44351.65554	B	-0.090	44366.62133	B	-0.186
44351.65832	B	-0.092	44366.62403	B	-0.180
44351.66110	B	-0.122	44366.62652	B	-0.181
44351.66388	B	-0.079	44366.62894	B	-0.155

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44366.63446	B	-0.171	44370.73375	B	-0.121
44366.63711	B	-0.186	44370.73930	B	-0.112
44366.63962	B	-0.171	44370.74208	B	-0.064
44366.64204	B	-0.183	44370.78375	B	-0.080
44366.64434	B	-0.179	44370.78654	B	-0.096
44366.64695	B	-0.180	44370.78930	B	-0.038
44366.68727	B	-0.163	44370.79208	B	-0.041
44366.69006	B	-0.183	44370.79486	B	-0.101
44366.69256	B	-0.191	44370.79763	B	-0.081
44366.69501	B	-0.183	44370.80041	B	-0.094
44366.69770	B	-0.180	44370.80319	B	-0.092
44366.70023	B	-0.176	44370.80597	B	-0.103
44366.70272	B	-0.185	44370.80875	B	-0.101
44366.70492	B	-0.171	44370.81152	B	-0.097
44366.70789	B	-0.174	44370.81430	B	-0.110
44366.71075	B	-0.174	44370.81708	B	-0.089
44366.75158	B	-0.189	44370.81986	B	-0.116
44366.75378	B	-0.192	44370.82263	B	-0.119
44366.75897	B	-0.179	44370.82541	B	-0.106
44366.76135	B	-0.194	44371.60355	B	-0.183
44366.76601	B	-0.213	44371.60591	B	-0.193
44370.57820	B	-0.105	44371.60823	B	-0.192
44370.58098	B	-0.124	44371.61092	B	-0.198
44370.58376	B	-0.146	44371.61334	B	-0.191
44370.58654	B	-0.109	44371.61583	B	-0.188
44370.58931	B	-0.149	44371.61814	B	-0.190
44370.59209	B	-0.118	44371.62091	B	-0.184
44370.59487	B	-0.134	44371.62370	B	-0.195
44370.59765	B	-0.131	44371.62625	B	-0.195
44370.60042	B	-0.135	44371.62978	B	-0.202
44370.60320	B	-0.104	44371.63208	B	-0.183
44370.60598	B	-0.080	44371.63440	B	-0.178
44370.60876	B	-0.071	44371.64107	B	-0.189
44370.67264	B	-0.093	44371.64352	B	-0.187
44370.67542	B	-0.101	44371.64593	B	-0.188
44370.67820	B	-0.094	44371.64859	B	-0.184
44370.68097	B	-0.069	44371.65096	B	-0.201
44370.68380	B	-0.095	44371.69716	B	-0.200
44370.68653	B	-0.105	44371.69934	B	-0.176
44370.68931	B	-0.093	44371.70150	B	-0.183
44370.69209	B	-0.036	44371.70365	B	-0.180
44370.69486	B	-0.126	44371.70606	B	-0.197
44370.69764	B	-0.068	44371.70853	B	-0.190
44370.70042	B	-0.058	44371.71084	B	-0.189
44370.70320	B	-0.040	44371.71297	B	-0.180
44370.70597	B	-0.098	44371.71509	B	-0.191
44370.70875	B	-0.091	44371.71724	B	-0.180
44370.71153	B	-0.084	44371.71929	B	-0.188
44370.71431	B	-0.090	44371.72162	B	-0.182
44370.71708	B	-0.096	44371.72507	B	-0.196
44370.71986	B	-0.085	44371.72780	B	-0.197
44370.72264	B	-0.076	44371.73102	B	-0.180
44370.72542	B	-0.085	44371.73342	B	-0.181
44370.72819	B	-0.088	44371.73599	B	-0.209
44370.73097	B	-0.078	44371.73845	B	-0.207

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44371.74170	B	-0.212	44380.59034	B	-0.170
44371.74408	B	-0.213	44380.59401	B	-0.158
44371.74872	B	-0.177	44380.59638	B	-0.153
44371.75089	B	-0.167	44380.60015	B	-0.146
44371.75813	B	-0.187	44380.60248	B	-0.165
44371.76022	B	-0.198	44380.60505	B	-0.148
44371.76269	B	-0.192	44380.60849	B	-0.151
44371.76497	B	-0.198	44380.61127	B	-0.147
44371.76724	B	-0.195	44380.61371	B	-0.140
44371.76944	B	-0.196	44380.61686	B	-0.160
44371.77184	B	-0.204	44380.62369	B	-0.173
44371.77413	B	-0.179	44380.62607	B	-0.157
44371.77640	B	-0.200	44380.63182	B	-0.147
44371.77842	B	-0.185	44380.63466	B	-0.167
44371.78262	B	-0.178	44380.64138	B	-0.155
44371.78471	B	-0.216	44380.64401	B	-0.152
44371.78686	B	-0.209	44380.64646	B	-0.159
44371.78902	B	-0.195	44380.65048	B	-0.175
44371.79116	B	-0.202	44380.65306	B	-0.160
44371.79334	B	-0.187	44380.65591	B	-0.168
44371.79542	B	-0.200	44380.66060	B	-0.163
44371.79781	B	-0.207	44380.66357	B	-0.175
44371.79991	B	-0.186	44380.67003	B	-0.127
44371.80288	B	-0.185	44380.67207	B	-0.170
44371.80507	B	-0.191	44380.67470	B	-0.128
44371.80726	B	-0.199	44380.67952	B	-0.174
44371.80941	B	-0.205	44384.58714	B	-0.159
44371.81157	B	-0.179	44384.58924	B	-0.181
44371.81369	B	-0.192	44384.59141	B	-0.156
44371.81779	B	-0.204	44384.59350	B	-0.163
44371.81995	B	-0.218	44384.59844	B	-0.148
44371.82212	B	-0.196	44384.60090	B	-0.108
44371.82431	B	-0.202	44384.60342	B	-0.154
44371.82666	B	-0.208	44384.60591	B	-0.166
44378.58669	B	-0.250	44384.60809	B	-0.184
44378.58918	B	-0.230	44384.61289	B	-0.153
44378.59668	B	-0.234	44384.61514	B	-0.151
44378.59965	B	-0.237	44384.61743	B	-0.170
44378.64885	B	-0.227	44384.62054	B	-0.136
44378.65166	B	-0.228	44384.62336	B	-0.167
44378.65543	B	-0.241	44384.62630	B	-0.142
44378.65815	B	-0.248	44384.62860	B	-0.161
44378.68697	B	-0.229	44384.63094	B	-0.145
44378.68985	B	-0.247	44384.63409	B	-0.133
44378.69219	B	-0.230	44384.63644	B	-0.153
44378.69470	B	-0.231	44384.64325	B	-0.170
44378.69716	B	-0.221	44384.64564	B	-0.151
44378.69999	B	-0.230	44384.64927	B	-0.141
44378.70272	B	-0.221	44384.65263	B	-0.137
44378.70603	B	-0.221	44384.65546	B	-0.167
44378.71245	B	-0.226	44384.66005	B	-0.151
44378.71538	B	-0.272	44384.66252	B	-0.164
44378.71887	B	-0.212	44384.66485	B	-0.155
44380.58365	B	-0.153	44384.66731	B	-0.153
44380.58703	B	-0.164	44384.66987	B	-0.150

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44384.67225	B	-0.154	44386.75577	B	-0.192
44384.67474	B	-0.150	44386.76118	B	-0.200
44384.67720	B	-0.159	44389.58525	B	-0.149
44384.68289	B	-0.138	44389.58985	B	-0.162
44384.68546	B	-0.168	44389.59299	B	-0.152
44384.68781	B	-0.165	44389.59742	B	-0.153
44384.69238	B	-0.159	44389.60068	B	-0.149
44384.69515	B	-0.156	44389.60411	B	-0.153
44384.69773	B	-0.148	44389.60908	B	-0.154
44384.70213	B	-0.140	44389.61223	B	-0.167
44384.70458	B	-0.150	44389.61564	B	-0.160
44384.70705	B	-0.164	44389.61996	B	-0.145
44384.70959	B	-0.162	44389.62297	B	-0.143
44384.71193	B	-0.189	44389.62964	B	-0.151
44384.74116	B	-0.028	44389.63390	B	-0.158
44384.74399	B	-0.097	44389.63696	B	-0.154
44386.58893	B	-0.178	44389.64896	B	-0.156
44386.59339	B	-0.236	44389.65198	B	-0.148
44386.59778	B	-0.219	44389.65494	B	-0.144
44386.60070	B	-0.206	44389.65927	B	-0.150
44386.60455	B	-0.237	44389.66226	B	-0.136
44386.60709	B	-0.198	44389.66558	B	-0.154
44386.61180	B	-0.228	44389.69133	B	-0.138
44386.61462	B	-0.185	44389.69488	B	-0.147
44386.62043	B	-0.204	44389.69862	B	-0.135
44386.62747	B	-0.225	44389.70183	B	-0.134
44386.63165	B	-0.251	44389.70611	B	-0.121
44386.63905	B	-0.206	44389.70917	B	-0.138
44386.64278	B	-0.215	44389.71223	B	-0.144
44386.64714	B	-0.207	44389.72368	B	-0.134
44386.65031	B	-0.222	44389.72810	B	-0.162
44386.65345	B	-0.209	44389.73241	B	-0.135
44386.65665	B	-0.227	44389.73560	B	-0.141
44386.66020	B	-0.229	44389.73886	B	-0.175
44386.66597	B	-0.203	44389.74185	B	-0.160
44386.66957	B	-0.199	44389.74512	B	-0.112
44386.67318	B	-0.219	44389.74873	B	-0.138
44386.67685	B	-0.216	44389.75365	B	-0.146
44386.68007	B	-0.210	44389.76012	B	-0.085
44386.68388	B	-0.194	44390.59101	B	-0.179
44386.69020	B	-0.212	44390.59526	B	-0.177
44386.69527	B	-0.191	44390.59596	B	-0.180
44386.69886	B	-0.216	44390.60446	B	-0.193
44386.70529	B	-0.221	44390.60762	B	-0.175
44386.70833	B	-0.250	44390.61206	B	-0.169
44386.71169	B	-0.195	44390.61511	B	-0.185
44386.71285	B	-0.208	44390.61811	B	-0.176
44386.71646	B	-0.219	44390.62126	B	-0.181
44386.71972	B	-0.201	44390.62506	B	-0.182
44386.72765	B	-0.232	44390.62933	B	-0.190
44386.73174	B	-0.219	44390.63323	B	-0.174
44386.73613	B	-0.205	44390.63625	B	-0.175
44386.74137	B	-0.238	44390.63949	B	-0.184
44386.74629	B	-0.215	44390.64397	B	-0.179
44386.75067	B	-0.224	44390.64712	B	-0.185

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44390.65018	B	-0.179	44394.59327	B	-0.114
44390.65338	B	-0.171	44394.59605	B	-0.119
44390.65673	B	-0.199	44394.59882	B	-0.127
44390.65999	B	-0.182	44394.60160	B	-0.128
44390.66302	B	-0.192	44394.60438	B	-0.103
44390.66634	B	-0.177	44394.60716	B	-0.100
44390.66963	B	-0.176	44394.60993	B	-0.121
44390.67444	B	-0.172	44394.61271	B	-0.103
44390.67749	B	-0.176	44394.61549	B	-0.109
44390.68092	B	-0.178	44394.61827	B	-0.102
44390.68413	B	-0.192	44394.62104	B	-0.111
44390.68736	B	-0.169	44394.62382	B	-0.086
44390.69198	B	-0.175	44394.62660	B	-0.073
44390.69563	B	-0.194	44394.62938	B	-0.046
44390.69877	B	-0.208	44394.63215	B	-0.090
44390.70177	B	-0.197	44394.63493	B	-0.092
44390.70488	B	-0.201	44394.63771	B	-0.111
44390.70811	B	-0.195	44394.64052	B	-0.113
44390.71219	B	-0.230	44394.64326	B	-0.093
44390.71642	B	-0.183	44394.64604	B	-0.096
44390.71933	B	-0.164	44394.64882	B	-0.093
44390.72222	B	-0.187	44394.65182	B	-0.107
44390.72550	B	-0.171	44394.65440	B	-0.103
44390.72860	B	-0.182	44394.65715	B	-0.091
44390.73169	B	-0.164	44394.65993	B	-0.088
44390.73615	B	-0.176	44394.66271	B	-0.080
44390.73946	B	-0.201	44394.66549	B	-0.091
44390.74269	B	-0.170	44394.66826	B	-0.081
44390.74585	B	-0.168	44394.67104	B	-0.077
44390.74898	B	-0.159	44394.67382	B	-0.084
44391.61281	B	-0.237	44394.67660	B	-0.070
44391.63090	B	-0.248	44394.67937	B	-0.084
44391.63427	B	-0.250	44394.68215	B	-0.086
44391.63741	B	-0.243	44394.68494	B	-0.076
44391.64065	B	-0.246	44394.68771	B	-0.075
44391.64395	B	-0.249	44394.69048	B	-0.097
44391.66556	B	-0.253	44394.69333	B	-0.074
44391.67090	B	-0.256	44394.69611	B	-0.113
44391.67458	B	-0.235	44394.69882	B	-0.095
44391.67814	B	-0.257	44394.70159	B	-0.087
44391.68157	B	-0.257	44394.70437	B	-0.096
44391.68577	B	-0.246	44394.70715	B	-0.085
44391.69137	B	-0.250	44394.70997	B	-0.071
44391.69626	B	-0.225	44394.71270	B	-0.090
44391.69995	B	-0.216	44394.71548	B	-0.079
44391.70304	B	-0.250	44394.71826	B	-0.094
44391.70617	B	-0.239	44394.72104	B	-0.083
44391.70938	B	-0.234	44394.72381	B	-0.090
44391.71322	B	-0.270	44394.72659	B	-0.078
44391.71740	B	-0.241	44394.72937	B	-0.076
44391.72426	B	-0.236	44394.73215	B	-0.061
44391.72788	B	-0.262	44394.73491	B	-0.080
44391.73108	B	-0.262	44394.73770	B	-0.080
44394.58771	B	-0.111	44394.74056	B	-0.123
44394.59049	B	-0.119	44394.74326	B	-0.090

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44394.74604	B	-0.084	44259.78354	U	-0.080
44394.74881	B	-0.077	44259.78631	U	-0.069
44394.75159	B	-0.086	44259.78909	U	-0.061
44394.75437	B	-0.092	44259.79188	U	-0.086
44394.75716	B	-0.089	44259.79465	U	-0.081
44394.75998	B	-0.088	44259.79743	U	-0.075
44394.76270	B	-0.088	44259.80020	U	-0.093
44394.76548	B	-0.104	44259.80298	U	-0.064
44394.76826	B	-0.111	44259.80577	U	-0.087
44394.77106	B	-0.077	44259.80854	U	-0.096
44394.77381	B	-0.113	44259.81132	U	-0.076
44394.77662	B	-0.082	44259.81409	U	-0.093
44394.77937	B	-0.087	44259.81687	U	-0.093
44394.78214	B	-0.084	44259.81965	U	-0.047
44394.78492	B	-0.113	44259.82242	U	-0.082
44394.78770	B	-0.100	44259.82520	U	-0.065
44394.79048	B	-0.094	44259.83354	U	-0.069
44394.79327	B	-0.107	44259.83631	U	-0.068
44395.61954	B	-0.185	44259.84187	U	-0.067
44395.62250	B	-0.195	44259.84465	U	-0.073
44395.62597	B	-0.184	44259.84744	U	-0.069
44395.62912	B	-0.190	44259.85021	U	-0.076
44395.63215	B	-0.193	44259.85301	U	-0.068
44395.63642	B	-0.174	44259.85581	U	-0.085
44395.63957	B	-0.209	44259.85861	U	-0.059
44395.64261	B	-0.193	44259.86132	U	-0.082
44395.64603	B	-0.195	44259.86411	U	-0.073
44395.64922	B	-0.175	44259.86687	U	-0.074
44395.65269	B	-0.194	44259.86965	U	-0.071
44395.65603	B	-0.189	44259.87242	U	-0.042
44395.66451	B	-0.198	44259.87521	U	-0.068
44395.66761	B	-0.185	44259.87804	U	-0.079
44395.67086	B	-0.188	44259.88079	U	-0.084
44395.68004	B	-0.175	44259.88353	U	-0.059
44395.68332	B	-0.193	44259.88630	U	-0.091
44395.68668	B	-0.193	44259.88910	U	-0.075
44395.69001	B	-0.176	44259.89188	U	-0.118
44225.91087	U	-0.094	44259.89465	U	-0.039
44225.91366	U	-0.129	44259.89749	U	-0.065
44225.91643	U	-0.102	44259.89993	U	-0.059
44225.91921	U	-0.078	44259.90299	U	-0.047
44225.92229	U	-0.087	44259.90577	U	-0.057
44225.92490	U	-0.103	44259.90857	U	-0.029
44225.92754	U	-0.069	44259.91132	U	-0.060
44225.93032	U	-0.099	44259.91410	U	-0.092
44225.93310	U	-0.098	44259.91688	U	-0.044
44225.93588	U	-0.118	44259.91966	U	-0.065
44225.93865	U	-0.133	44259.92243	U	-0.057
44225.94143	U	-0.103	44259.92521	U	-0.052
44225.94425	U	-0.076	44259.92602	U	0.014
44225.94699	U	-0.073	44259.92799	U	-0.070
44225.94979	U	-0.106	44259.93085	U	-0.076
44225.95253	U	-0.097	44259.93356	U	-0.041
44225.95532	U	-0.107	44259.93632	U	-0.057
44259.78076	U	-0.069	44259.93910	U	-0.068

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44259.94189	U	-0.071	44262.95113	U	0.720
44259.94466	U	-0.049	44262.95388	U	0.679
44259.94744	U	-0.050	44262.95666	U	0.679
44259.95021	U	-0.044	44262.95944	U	0.622
44259.95299	U	-0.063	44262.96222	U	0.569
44259.95577	U	-0.055	44262.96499	U	0.572
44259.95855	U	-0.056	44262.96778	U	0.524
44262.76219	U	1.575	44262.97055	U	0.504
44262.76498	U	1.600	44262.97333	U	0.461
44262.76776	U	1.475	44268.78063	U	-0.124
44262.77054	U	1.503	44268.78341	U	-0.086
44262.77331	U	1.897	44268.78619	U	-0.110
44262.77609	U	1.484	44268.78897	U	-0.108
44262.77887	U	1.479	44268.79174	U	-0.121
44262.78167	U	1.543	44268.79452	U	-0.108
44262.78443	U	1.598	44268.79730	U	-0.112
44262.78726	U	1.579	44268.80008	U	-0.096
44262.80140	U	1.793	44268.80286	U	-0.079
44262.80469	U	1.572	44268.80573	U	-0.098
44262.84832	U	1.594	44268.80841	U	-0.101
44262.85110	U	1.531	44268.81119	U	-0.102
44262.85388	U	1.559	44268.81397	U	-0.123
44262.85665	U	1.579	44268.81676	U	-0.095
44262.85943	U	1.571	44268.81952	U	-0.109
44262.86221	U	1.585	44268.82230	U	-0.089
44262.86499	U	1.609	44268.82508	U	-0.112
44262.86778	U	1.541	44268.82786	U	-0.118
44262.87057	U	1.524	44268.83063	U	-0.116
44262.87332	U	1.512	44268.83341	U	-0.069
44262.87610	U	1.522	44268.83619	U	-0.129
44262.87888	U	1.570	44268.83897	U	-0.104
44262.88166	U	1.552	44268.84175	U	-0.096
44262.88443	U	1.539	44268.84454	U	-0.096
44262.88722	U	1.561	44268.84730	U	-0.111
44262.88999	U	1.528	44268.85008	U	-0.102
44262.89277	U	1.478	44268.85289	U	-0.111
44262.89554	U	1.476	44268.85564	U	-0.090
44262.89832	U	1.490	44268.85844	U	-0.089
44262.90110	U	1.451	44268.86119	U	-0.081
44262.90388	U	1.396	44268.86397	U	-0.093
44262.90665	U	1.349	44268.86675	U	-0.070
44262.90943	U	1.313	44268.86953	U	-0.113
44262.91222	U	1.264	44268.87232	U	-0.104
44262.91499	U	1.254	44268.87508	U	-0.117
44262.91777	U	1.194	44268.87786	U	-0.113
44262.92053	U	1.129	44268.88064	U	-0.104
44262.92334	U	1.102	44268.88353	U	-0.100
44262.92611	U	1.102	44268.88619	U	-0.090
44262.92888	U	1.011	44268.88897	U	-0.080
44262.93166	U	0.999	44268.89175	U	-0.109
44262.93442	U	0.958	44268.89455	U	-0.100
44262.93721	U	0.908	44268.89732	U	-0.108
44262.93999	U	0.866	44268.90008	U	-0.085
44262.94277	U	0.828	44268.90286	U	-0.094
44262.94654	U	0.767	44268.90564	U	-0.096

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HELIC. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44268.90842	U	-0.097	44273.82260	U	-0.092
44268.91120	U	-0.096	44273.82536	U	-0.084
44268.91397	U	-0.100	44273.82814	U	-0.070
44268.91675	U	-0.083	44273.83092	U	-0.078
44268.91953	U	-0.063	44273.83371	U	-0.083
44268.92232	U	-0.069	44273.83653	U	-0.095
44268.92526	U	-0.087	44273.83925	U	-0.080
44268.92786	U	-0.104	44273.84203	U	-0.086
44268.93064	U	-0.107	44273.84481	U	-0.097
44268.93342	U	-0.118	44273.84760	U	-0.086
44268.93620	U	-0.110	44273.85037	U	-0.076
44268.93897	U	-0.113	44273.85318	U	-0.085
44268.94175	U	-0.113	44273.85592	U	-0.105
44268.94453	U	-0.120	44273.85868	U	-0.106
44268.94731	U	-0.106	44273.86136	U	-0.070
44268.95009	U	-0.062	44273.86426	U	-0.094
44268.95286	U	-0.083	44273.86715	U	-0.074
44268.95564	U	-0.113	44273.86982	U	-0.076
44268.95842	U	-0.085	44273.87267	U	-0.070
44268.96120	U	-0.091	44273.87537	U	-0.077
44273.72258	U	-0.062	44273.87815	U	-0.094
44273.72536	U	-0.132	44273.88093	U	-0.078
44273.72815	U	-0.150	44273.88377	U	-0.049
44273.73092	U	-0.086	44273.88649	U	-0.087
44273.73369	U	-0.119	44273.88927	U	-0.077
44273.73652	U	-0.100	44273.89205	U	-0.086
44273.73925	U	-0.087	44274.71777	U	-0.009
44273.74203	U	-0.097	44274.72058	U	-0.041
44273.74480	U	-0.092	44274.72333	U	-0.042
44273.74758	U	-0.112	44274.72611	U	-0.054
44273.75036	U	-0.137	44274.72889	U	-0.036
44273.75314	U	-0.121	44274.73166	U	-0.047
44273.75594	U	-0.102	44274.73444	U	-0.033
44273.75872	U	-0.076	44274.74000	U	-0.025
44273.76147	U	-0.108	44274.74278	U	0.012
44273.76424	U	-0.070	44274.74555	U	0.002
44273.76703	U	-0.096	44274.74839	U	-0.038
44273.76999	U	-0.118	44274.75111	U	-0.028
44273.77256	U	-0.083	44274.75389	U	-0.037
44273.77536	U	-0.051	44274.75667	U	-0.022
44273.77814	U	-0.091	44274.75944	U	-0.021
44273.78092	U	-0.121	44274.76222	U	-0.040
44273.78383	U	-0.162	44274.76500	U	-0.026
44273.78647	U	-0.021	44274.76778	U	-0.035
44273.78924	U	-0.125	44274.77059	U	-0.029
44273.79482	U	-0.118	44274.77332	U	-0.027
44273.79759	U	-0.050	44274.77611	U	-0.018
44273.80036	U	-0.078	44274.77889	U	-0.017
44273.80314	U	-0.078	44274.78167	U	-0.017
44273.80592	U	-0.081	44274.78444	U	-0.023
44273.80870	U	-0.103	44274.78723	U	-0.020
44273.81148	U	-0.108	44274.79001	U	-0.027
44273.81425	U	-0.073	44274.79278	U	-0.012
44273.81703	U	-0.087	44274.79556	U	-0.041
44273.81982	U	-0.108	44274.79833	U	-0.037

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44274.80111	U	-0.036	44274.95668	U	-0.035
44274.80397	U	-0.022	44274.95945	U	-0.027
44274.80667	U	-0.006	44274.96223	U	-0.015
44274.80948	U	-0.021	44274.96501	U	0.006
44274.81222	U	-0.049	44274.96779	U	-0.039
44274.81500	U	-0.052	44275.72475	U	-0.057
44274.81778	U	-0.035	44275.72755	U	-0.067
44274.82056	U	-0.007	44275.73033	U	-0.067
44274.82334	U	-0.025	44275.73311	U	-0.080
44274.82625	U	-0.021	44275.73591	U	-0.090
44274.82889	U	-0.002	44275.73866	U	-0.059
44274.83167	U	0.003	44275.74144	U	-0.065
44274.83445	U	0.015	44275.74422	U	-0.061
44274.83723	U	-0.043	44275.74701	U	-0.122
44274.84000	U	-0.067	44275.74988	U	-0.086
44274.84278	U	-0.031	44275.75255	U	-0.110
44274.84556	U	-0.023	44275.75533	U	-0.048
44274.84834	U	0.0	44275.75810	U	-0.071
44274.85111	U	-0.046	44275.76089	U	-0.062
44274.85378	U	-0.059	44275.76366	U	-0.094
44274.85667	U	-0.078	44275.76644	U	-0.092
44274.85945	U	-0.036	44275.76922	U	-0.077
44274.86222	U	-0.042	44275.77200	U	-0.069
44274.86500	U	-0.032	44275.77478	U	-0.099
44274.86778	U	-0.022	44276.76372	U	-0.114
44274.87056	U	-0.036	44276.76649	U	-0.077
44274.87334	U	-0.023	44276.76927	U	-0.140
44274.87612	U	-0.015	44276.77205	U	-0.131
44274.87889	U	-0.012	44276.77483	U	-0.094
44274.88127	U	-0.019	44276.77761	U	-0.117
44274.88445	U	-0.009	44276.78038	U	-0.117
44274.88731	U	-0.007	44276.78316	U	-0.119
44274.89278	U	-0.013	44276.78594	U	-0.118
44274.89558	U	-0.015	44276.78872	U	-0.086
44274.89834	U	-0.023	44276.79150	U	-0.107
44274.90113	U	-0.029	44276.79427	U	-0.121
44274.90393	U	-0.051	44276.79705	U	-0.111
44274.90667	U	-0.054	44276.79983	U	-0.118
44274.90949	U	-0.016	44276.80261	U	-0.123
44274.91225	U	-0.021	44276.80538	U	-0.122
44274.91502	U	-0.008	44276.80816	U	-0.104
44274.91779	U	-0.017	44276.81095	U	-0.118
44274.92053	U	-0.047	44276.81373	U	-0.107
44274.92334	U	-0.030	44276.81650	U	-0.099
44274.92612	U	0.0	44276.81929	U	-0.118
44274.92890	U	-0.009	44276.82206	U	-0.106
44274.93167	U	-0.021	44276.82483	U	-0.102
44274.93449	U	-0.005	44276.82769	U	-0.115
44274.93723	U	-0.017	44276.83039	U	-0.113
44274.94001	U	-0.031	44276.83319	U	-0.125
44274.94281	U	-0.056	44276.83594	U	-0.110
44274.94555	U	-0.018	44276.83872	U	-0.114
44274.94834	U	-0.018	44276.84150	U	-0.145
44274.95112	U	-0.052	44276.84428	U	-0.141
44274.95390	U	-0.037	44276.84705	U	-0.117

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44276.84983	U	-0.115	44277.77910	U	-0.155
44276.85261	U	-0.114	44277.78182	U	-0.157
44276.85542	U	-0.113	44277.78459	U	-0.139
44276.85817	U	-0.101	44277.78740	U	-0.139
44276.86094	U	-0.103	44277.79016	U	-0.144
44276.86372	U	-0.117	44277.79306	U	-0.130
44276.86650	U	-0.106	44277.79849	U	-0.122
44276.86928	U	-0.118	44277.80127	U	-0.140
44276.87205	U	-0.153	44277.80412	U	-0.118
44276.87483	U	-0.121	44277.80683	U	-0.103
44276.87761	U	-0.102	44277.80959	U	-0.140
44276.88039	U	-0.118	44277.81238	U	-0.149
44276.88317	U	-0.126	44277.81516	U	-0.121
44276.88594	U	-0.110	44289.81152	U	-0.095
44276.88875	U	-0.136	44289.81430	U	-0.104
44276.89150	U	-0.122	44289.81708	U	-0.104
44276.89429	U	-0.132	44289.81986	U	-0.067
44276.89706	U	-0.111	44289.82263	U	-0.061
44276.89983	U	-0.092	44289.82541	U	-0.071
44276.90261	U	-0.116	44289.82819	U	-0.087
44276.90539	U	-0.133	44289.83097	U	-0.073
44276.90817	U	-0.149	44289.83375	U	-0.080
44276.91095	U	-0.119	44289.83652	U	-0.054
44276.91372	U	-0.099	44289.83930	U	-0.060
44276.91650	U	-0.127	44289.84209	U	-0.071
44276.91935	U	-0.112	44289.84486	U	-0.077
44276.92484	U	-0.154	44289.84764	U	-0.060
44276.92553	U	-0.092	44289.85041	U	-0.076
44276.92761	U	-0.105	44289.85320	U	-0.035
44276.93039	U	-0.108	44289.85597	U	-0.068
44276.93317	U	-0.074	44289.85875	U	-0.073
44276.93599	U	-0.115	44289.86159	U	-0.014
44276.93872	U	-0.125	44289.86430	U	0.111
44276.94150	U	-0.102	44289.86708	U	0.335
44276.94428	U	-0.110	44289.86986	U	0.017
44276.94706	U	-0.093	44289.87264	U	-0.026
44276.94984	U	-0.101	44290.70461	U	-0.088
44276.95261	U	-0.104	44290.70738	U	-0.128
44276.95539	U	-0.064	44290.71017	U	-0.079
44277.73500	U	-0.161	44290.71295	U	-0.068
44277.73747	U	-0.130	44290.71572	U	-0.094
44277.74016	U	-0.136	44290.71850	U	-0.095
44277.74293	U	-0.167	44290.72128	U	-0.127
44277.74571	U	-0.135	44290.72406	U	-0.110
44277.74850	U	-0.128	44290.72683	U	-0.105
44277.75127	U	-0.146	44290.72961	U	-0.103
44277.75404	U	-0.140	44290.73239	U	-0.117
44277.75682	U	-0.162	44290.73517	U	-0.098
44277.75960	U	-0.129	44290.73795	U	-0.066
44277.76238	U	-0.104	44290.74072	U	-0.077
44277.76519	U	-0.111	44290.74350	U	-0.074
44277.76793	U	-0.152	44290.74629	U	-0.098
44277.77071	U	-0.164	44290.74906	U	-0.075
44277.77349	U	-0.134	44290.75184	U	-0.095
44277.77641	U	-0.125	44290.75461	U	-0.081

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44290.75739	U	-0.101	44291.80187	U	0.096
44290.76017	U	-0.101	44291.80465	U	0.085
44290.76295	U	-0.086	44291.80742	U	0.055
44290.76573	U	-0.103	44291.81021	U	0.039
44290.76850	U	-0.092	44291.81298	U	0.034
44290.77128	U	-0.085	44291.81576	U	0.006
44290.77406	U	-0.111	44291.81854	U	0.017
44290.77684	U	-0.070	44291.82132	U	0.005
44290.77961	U	-0.120	44291.82411	U	-0.035
44290.78239	U	-0.086	44291.82689	U	-0.026
44290.78520	U	-0.113	44291.82965	U	-0.067
44290.78795	U	-0.096	44291.83244	U	-0.046
44290.79073	U	-0.093	44291.83521	U	-0.089
44290.79350	U	-0.073	44291.83799	U	-0.107
44290.79628	U	-0.048	44291.84076	U	-0.059
44290.79906	U	-0.073	44291.84354	U	-0.091
44291.69076	U	1.578	44291.84632	U	-0.080
44291.69354	U	1.384	44291.84910	U	-0.091
44291.69631	U	1.279	44291.85193	U	-0.107
44291.69909	U	1.250	44291.85465	U	-0.116
44291.70187	U	1.138	44291.85743	U	-0.114
44291.70465	U	1.178	44291.86021	U	-0.112
44291.70748	U	1.110	44291.86299	U	-0.140
44291.71020	U	1.103	44291.86576	U	-0.188
44291.71298	U	1.078	44291.86854	U	-0.145
44291.71576	U	1.019	44291.87132	U	-0.168
44291.71854	U	1.025	44291.87411	U	-0.099
44291.72131	U	0.911	44291.87698	U	-0.099
44291.72409	U	0.926	44291.87965	U	-0.113
44291.72687	U	0.870	44291.88243	U	-0.131
44291.72965	U	0.772	44291.88521	U	-0.139
44291.73243	U	0.808	44291.88799	U	-0.119
44291.73520	U	0.702	44291.89078	U	-0.139
44291.73798	U	0.745	44291.89354	U	-0.146
44291.74076	U	0.657	44291.89634	U	-0.107
44291.74354	U	0.672	44291.89910	U	-0.141
44291.74632	U	0.636	44291.90189	U	-0.142
44291.74911	U	0.586	44291.90468	U	-0.106
44291.75187	U	0.535	44291.90743	U	-0.130
44291.75465	U	0.490	44291.91021	U	-0.107
44291.75743	U	0.483	44291.91300	U	-0.131
44291.76020	U	0.461	44291.91577	U	-0.132
44291.76298	U	0.452	44291.91854	U	-0.160
44291.76576	U	0.397	44291.92132	U	-0.115
44291.76854	U	0.355	44291.92410	U	-0.128
44291.77132	U	0.351	44291.92688	U	-0.123
44291.77409	U	0.346	44291.92966	U	-0.133
44291.77696	U	0.279	44291.93243	U	-0.126
44291.77965	U	0.260	44291.93521	U	-0.148
44291.78243	U	0.281	44291.93799	U	-0.126
44291.78521	U	0.203	44291.94077	U	-0.164
44291.78798	U	0.161	44291.94354	U	-0.134
44291.79076	U	0.176	44291.94632	U	-0.134
44291.79354	U	0.160	44291.94910	U	-0.137
44291.79632	U	0.109	44292.66857	U	-0.164

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44292.67135	U	–0.127	44298.77431	U	–0.017
44292.67413	U	–0.104	44298.77709	U	0.0
44292.67690	U	–0.126	44298.77988	U	–0.009
44292.67968	U	–0.156	44298.78264	U	0.025
44292.68246	U	–0.124	44298.78542	U	–0.023
44292.68524	U	–0.174	44298.78826	U	–0.017
44292.68801	U	–0.093	44298.79098	U	0.015
44292.69079	U	–0.125	44298.79379	U	0.007
44292.69358	U	–0.021	44298.79653	U	0.018
44296.86453	U	–0.141	44298.79931	U	–0.054
44296.86731	U	–0.143	44298.80210	U	–0.012
44296.86951	U	–0.112	44298.80487	U	–0.042
44296.87287	U	–0.153	44298.80764	U	–0.024
44296.87565	U	–0.156	44298.81042	U	–0.031
44296.87844	U	–0.150	44298.81320	U	–0.011
44298.65764	U	–0.062	44298.81598	U	–0.056
44298.66042	U	–0.042	44298.84376	U	–0.032
44298.66320	U	–0.061	44298.84653	U	–0.024
44298.66597	U	–0.046	44298.85209	U	–0.029
44298.66875	U	–0.063	44298.85487	U	–0.034
44298.67153	U	–0.038	44298.85765	U	0.0
44298.67431	U	–0.028	44298.86042	U	–0.015
44298.67708	U	–0.015	44298.86320	U	–0.034
44298.67986	U	–0.010	44298.86598	U	–0.022
44298.68264	U	–0.062	44298.86876	U	–0.028
44298.68542	U	–0.038	44298.87153	U	–0.039
44298.68821	U	–0.047	44298.87431	U	–0.022
44298.69097	U	–0.040	44298.87709	U	–0.035
44298.69375	U	–0.001	44298.87987	U	–0.019
44298.69653	U	–0.024	44298.88295	U	–0.029
44298.69931	U	–0.037	44298.88542	U	–0.022
44298.70209	U	–0.022	44298.88820	U	–0.005
44298.70486	U	–0.004	44298.89098	U	–0.035
44298.70764	U	0.0	44298.89376	U	–0.012
44298.71042	U	0.014	44298.89653	U	–0.039
44298.71320	U	–0.012	44298.89931	U	–0.012
44298.71597	U	–0.021	44298.90210	U	–0.049
44298.71875	U	–0.035	44298.90487	U	–0.056
44298.72153	U	–0.023	44298.90768	U	–0.073
44298.72986	U	–0.036	44298.91042	U	–0.080
44298.73266	U	–0.010	44298.91320	U	–0.051
44298.73542	U	–0.003	44298.91880	U	–0.018
44298.73820	U	–0.023	44302.64150	U	–0.105
44298.74098	U	–0.033	44302.64550	U	–0.072
44298.74375	U	–0.025	44302.65039	U	–0.116
44298.74653	U	–0.018	44302.65309	U	–0.084
44298.74931	U	–0.006	44302.65783	U	–0.081
44298.75209	U	–0.003	44302.66145	U	–0.091
44298.75486	U	–0.025	44302.66423	U	–0.089
44298.75764	U	0.0	44302.66704	U	–0.098
44298.76042	U	–0.011	44302.67121	U	–0.064
44298.76320	U	–0.011	44302.67491	U	–0.049
44298.76598	U	–0.011	44302.67880	U	–0.092
44298.76879	U	0.005	44302.68175	U	–0.105
44298.77154	U	–0.012	44302.68533	U	–0.093

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44302.68792	U	-0.095	44302.87846	U	-0.105
44302.69039	U	-0.043	44302.88149	U	-0.072
44302.69423	U	-0.057	44302.88636	U	-0.060
44302.69695	U	-0.062	44302.88889	U	-0.075
44302.69961	U	-0.096	44302.89168	U	-0.100
44302.70219	U	-0.076	44302.89431	U	-0.071
44302.70507	U	-0.093	44302.89702	U	-0.075
44302.71080	U	-0.094	44302.90015	U	-0.075
44302.71370	U	-0.091	44302.90513	U	-0.050
44302.71667	U	-0.056	44302.90778	U	-0.073
44302.72034	U	-0.086	44302.91048	U	-0.043
44302.72327	U	-0.063	44302.91372	U	-0.076
44302.72593	U	-0.054	44302.91692	U	-0.071
44302.73067	U	-0.094	44302.92085	U	-0.088
44302.73409	U	-0.087	44302.92413	U	-0.084
44302.73683	U	-0.097	44302.92690	U	-0.074
44302.73979	U	-0.080	44302.92973	U	-0.064
44302.74239	U	-0.048	44302.93249	U	-0.045
44302.74586	U	-0.077	44302.93525	U	-0.069
44302.74914	U	-0.092	44302.93774	U	-0.070
44302.75304	U	-0.076	44302.94030	U	-0.068
44302.75717	U	-0.084	44320.67772	U	-0.162
44302.75983	U	-0.099	44320.67998	U	-0.143
44302.76252	U	-0.092	44320.68226	U	-0.111
44302.76538	U	-0.076	44320.68446	U	-0.134
44302.76842	U	-0.081	44320.68663	U	-0.148
44302.77296	U	-0.068	44320.68999	U	-0.123
44302.77643	U	-0.061	44320.69269	U	-0.122
44302.78089	U	-0.065	44320.69510	U	-0.112
44302.78365	U	-0.077	44320.69738	U	-0.123
44302.78365	U	-0.077	44320.70057	U	-0.144
44302.78741	U	-0.063	44320.70277	U	-0.152
44302.78741	U	-0.063	44320.70506	U	-0.130
44302.79409	U	-0.065	44320.70727	U	-0.125
44302.79674	U	-0.065	44320.71062	U	-0.122
44302.79957	U	-0.063	44320.71285	U	-0.095
44302.80230	U	-0.105	44320.71516	U	-0.122
44302.80468	U	-0.059	44320.71807	U	-0.102
44302.80738	U	-0.042	44320.72146	U	-0.122
44302.81009	U	-0.076	44320.72374	U	-0.132
44302.81263	U	-0.060	44320.72641	U	-0.127
44302.81641	U	-0.078	44320.72872	U	-0.136
44302.81882	U	-0.042	44320.73119	U	-0.155
44302.82171	U	-0.078	44320.73466	U	-0.152
44302.82504	U	-0.065	44320.73704	U	-0.126
44302.82779	U	-0.095	44320.73999	U	-0.136
44302.83034	U	-0.041	44320.74272	U	-0.115
44302.83338	U	-0.070	44320.74545	U	-0.119
44302.83599	U	-0.101	44320.74975	U	-0.130
44302.85642	U	-0.061	44320.76321	U	-0.158
44302.86005	U	-0.041	44320.76567	U	-0.140
44302.86350	U	-0.050	44320.76873	U	-0.122
44302.86630	U	-0.071	44320.77133	U	-0.141
44302.86926	U	-0.055	44320.77379	U	-0.124
44302.87382	U	-0.037	44320.77626	U	-0.140

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44320.78410	U	-0.102	44335.69106	U	-0.100
44320.78675	U	-0.119	44335.69384	U	-0.122
44320.78935	U	-0.120	44335.69661	U	-0.111
44320.79206	U	-0.104	44335.69939	U	-0.111
44320.79522	U	-0.121	44335.70217	U	-0.076
44320.79763	U	-0.145	44335.70495	U	-0.097
44320.80028	U	-0.134	44335.70772	U	-0.116
44320.83470	U	-0.123	44335.71050	U	-0.138
44320.83704	U	-0.156	44335.71328	U	-0.116
44320.83949	U	-0.126	44335.71606	U	-0.102
44320.84190	U	-0.139	44335.71883	U	-0.083
44320.84410	U	-0.125	44335.72161	U	-0.109
44320.84628	U	-0.128	44335.72439	U	-0.101
44320.84856	U	-0.131	44335.72717	U	-0.120
44320.85122	U	-0.113	44335.72995	U	-0.117
44320.85391	U	-0.104	44335.73272	U	-0.099
44320.85640	U	-0.120	44335.73550	U	-0.100
44320.85886	U	-0.122	44335.73828	U	-0.105
44320.86215	U	-0.128	44335.74106	U	-0.085
44320.86514	U	-0.136	44335.74381	U	-0.088
44320.86859	U	-0.135	44335.75217	U	-0.045
44320.87202	U	-0.139	44335.75494	U	-0.093
44320.87445	U	-0.149	44335.75772	U	-0.109
44320.87677	U	-0.130	44335.76050	U	-0.073
44320.87912	U	-0.119	44335.76328	U	-0.091
44320.88151	U	-0.123	44335.76606	U	-0.094
44320.88365	U	-0.137	44335.79320	U	-0.093
44320.88737	U	-0.109	44335.79550	U	-0.122
44320.88986	U	-0.114	44335.79792	U	-0.106
44320.89231	U	-0.111	44335.81123	U	-0.128
44335.60773	U	-0.115	44335.81355	U	-0.114
44335.61050	U	-0.128	44335.81590	U	-0.090
44335.61328	U	-0.092	44335.81892	U	-0.132
44335.61606	U	-0.093	44335.82151	U	-0.103
44335.61884	U	-0.119	44335.82417	U	-0.106
44335.62161	U	-0.130	44335.82647	U	-0.092
44335.62439	U	-0.110	44335.82927	U	-0.127
44335.64106	U	-0.123	44339.57430	U	1.570
44335.64384	U	-0.106	44339.57707	U	1.603
44335.64661	U	-0.101	44339.57985	U	1.550
44335.64939	U	-0.110	44339.58263	U	1.537
44335.65217	U	-0.116	44339.58541	U	1.553
44335.65495	U	-0.132	44339.58818	U	1.561
44335.65770	U	-0.116	44339.59096	U	1.540
44335.66050	U	-0.102	44339.59374	U	1.528
44335.66328	U	-0.124	44339.59652	U	1.565
44335.66606	U	-0.137	44339.59930	U	1.556
44335.66884	U	-0.101	44339.60207	U	1.574
44335.67161	U	-0.116	44339.60485	U	1.564
44335.67443	U	-0.143	44339.60763	U	1.535
44335.67717	U	-0.147	44339.61041	U	1.507
44335.67995	U	-0.124	44339.61318	U	1.574
44335.68272	U	-0.113	44339.61596	U	1.553
44335.68550	U	-0.099	44339.61874	U	1.600
44335.68828	U	-0.107	44339.62152	U	1.642

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44339.62429	U	1.560	44341.63325	U	-0.073
44339.62707	U	1.595	44341.63559	U	-0.062
44339.62985	U	1.573	44341.63900	U	-0.071
44339.63263	U	1.643	44341.71794	U	-0.072
44339.63541	U	1.597	44341.72051	U	-0.071
44339.63818	U	1.550	44341.72279	U	-0.092
44339.64096	U	1.562	44341.72729	U	-0.077
44339.64374	U	1.573	44341.73503	U	-0.061
44339.64652	U	1.579	44341.73753	U	-0.043
44339.64929	U	1.599	44341.73995	U	-0.037
44339.65207	U	1.515	44341.74244	U	-0.052
44339.65485	U	1.508	44341.74503	U	-0.075
44339.65763	U	1.477	44341.74742	U	-0.052
44339.66041	U	1.495	44341.74978	U	-0.032
44339.66319	U	1.437	44341.75233	U	-0.067
44339.66596	U	1.377	44341.75525	U	-0.077
44339.66874	U	1.387	44341.75756	U	-0.051
44339.67157	U	1.357	44341.76058	U	-0.073
44340.57591	U	-0.067	44341.76310	U	-0.035
44340.57838	U	-0.081	44341.76570	U	-0.037
44340.58089	U	-0.124	44350.64546	U	-0.082
44340.58335	U	-0.130	44350.64786	U	-0.080
44340.58578	U	-0.108	44350.65043	U	-0.079
44340.64966	U	-0.120	44350.65402	U	-0.081
44340.65202	U	-0.082	44350.65646	U	-0.086
44340.65450	U	-0.085	44350.68632	U	-0.086
44340.65707	U	-0.084	44350.68883	U	-0.083
44340.65947	U	-0.122	44350.69300	U	-0.073
44340.66236	U	-0.092	44350.70496	U	-0.066
44340.66647	U	-0.121	44350.70763	U	-0.039
44340.66905	U	-0.138	44350.71018	U	-0.055
44340.67129	U	-0.120	44350.71291	U	-0.076
44340.67450	U	-0.101	44350.71566	U	-0.075
44340.67692	U	-0.123	44350.71967	U	-0.075
44340.67968	U	-0.154	44350.72242	U	-0.072
44340.68311	U	-0.077	44351.55309	U	-0.002
44340.68571	U	-0.093	44351.55584	U	0.035
44340.68885	U	-0.076	44351.55861	U	-0.058
44340.69158	U	-0.070	44351.56139	U	-0.061
44340.69440	U	-0.088	44351.56417	U	-0.022
44340.69771	U	-0.137	44351.56695	U	-0.025
44340.70096	U	-0.138	44351.56972	U	-0.026
44340.70712	U	-0.098	44351.57250	U	0.003
44340.70986	U	-0.108	44351.57528	U	-0.017
44341.58748	U	-0.034	44351.57806	U	-0.017
44341.58985	U	-0.064	44351.58083	U	-0.082
44341.59245	U	-0.005	44351.58361	U	-0.011
44341.59491	U	0.009	44351.58639	U	-0.016
44341.61552	U	-0.080	44351.58917	U	0.0
44341.61797	U	-0.077	44351.59195	U	-0.023
44341.62151	U	-0.074	44351.59472	U	0.0
44341.62389	U	-0.060	44351.59757	U	-0.032
44341.62636	U	-0.098	44351.60028	U	-0.101
44341.62882	U	-0.048	44351.60583	U	-0.057
44341.63100	U	-0.084	44351.60861	U	-0.034

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44351.61139	U	-0.007	44351.77539	U	-0.097
44351.61417	U	-0.047	44351.77805	U	-0.127
44351.61694	U	-0.016	44351.78102	U	-0.021
44351.61972	U	-0.003	44351.78360	U	-0.054
44351.62250	U	-0.052	44351.78638	U	-0.063
44351.62534	U	-0.076	44351.78916	U	-0.025
44351.63083	U	-0.051	44351.79194	U	-0.067
44351.63639	U	-0.074	44351.79471	U	-0.076
44351.63917	U	-0.111	44351.79749	U	0.010
44351.64194	U	-0.051	44351.80027	U	0.010
44351.64472	U	-0.076	44351.80305	U	-0.042
44351.64750	U	0.038	44351.80583	U	-0.058
44351.65028	U	-0.019	44351.80860	U	-0.033
44351.65305	U	0.008	44366.61917	U	-0.093
44351.65583	U	-0.028	44366.62164	U	-0.071
44351.65861	U	-0.025	44366.62431	U	-0.061
44351.66139	U	-0.002	44366.62680	U	-0.080
44351.66416	U	-0.002	44366.62919	U	-0.063
44351.66694	U	-0.024	44366.63472	U	-0.060
44351.66972	U	-0.011	44366.63748	U	-0.055
44351.67250	U	-0.030	44366.63990	U	-0.106
44351.67536	U	-0.061	44366.64233	U	-0.077
44351.67805	U	-0.026	44366.64461	U	-0.066
44351.68083	U	-0.063	44366.64721	U	-0.092
44351.68361	U	-0.040	44366.68755	U	-0.073
44351.69195	U	-0.042	44366.69034	U	-0.095
44351.69472	U	-0.005	44366.69284	U	-0.057
44351.69750	U	-0.009	44366.69528	U	-0.115
44351.70027	U	-0.031	44366.69797	U	-0.076
44351.70305	U	0.009	44366.70050	U	-0.096
44351.70583	U	0.001	44366.70298	U	-0.091
44351.70861	U	-0.038	44366.70520	U	-0.096
44351.71139	U	0.0	44366.70816	U	-0.070
44351.71416	U	-0.069	44366.71102	U	-0.077
44351.71694	U	-0.055	44366.75185	U	-0.100
44351.71972	U	-0.108	44366.75405	U	-0.125
44351.72250	U	-0.035	44366.75924	U	-0.074
44351.72527	U	0.006	44366.76160	U	-0.063
44351.72805	U	-0.017	44366.76627	U	-0.076
44351.73083	U	-0.075	44370.57849	U	0.037
44351.73361	U	-0.026	44370.58127	U	0.0
44351.73638	U	-0.072	44370.58405	U	-0.070
44351.73916	U	-0.036	44370.58683	U	-0.025
44351.74194	U	-0.073	44370.58960	U	-0.089
44351.74481	U	-0.016	44370.59238	U	-0.080
44351.74749	U	-0.024	44370.59516	U	-0.123
44351.75027	U	-0.019	44370.59794	U	-0.048
44351.75305	U	-0.059	44370.60071	U	-0.044
44351.75586	U	-0.080	44370.60349	U	-0.048
44351.75861	U	-0.061	44370.60627	U	0.005
44351.76138	U	-0.047	44370.60905	U	0.014
44351.76416	U	-0.071	44370.67293	U	-0.033
44351.76700	U	-0.059	44370.67571	U	-0.016
44351.76972	U	-0.023	44370.67849	U	-0.041
44351.77249	U	-0.088	44370.68126	U	0.0

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44370.68404	U	0.020	44371.69742	U	-0.091
44370.68682	U	-0.025	44371.69962	U	-0.085
44370.68960	U	-0.021	44371.70177	U	-0.083
44370.69237	U	-0.002	44371.70391	U	-0.085
44370.69515	U	-0.030	44371.70633	U	-0.068
44370.69793	U	0.011	44371.70878	U	-0.095
44370.70071	U	0.008	44371.71112	U	-0.088
44370.70349	U	0.065	44371.71324	U	-0.098
44370.70626	U	-0.015	44371.71535	U	-0.040
44370.70904	U	-0.011	44371.71750	U	-0.054
44370.71182	U	0.009	44371.71958	U	-0.060
44370.71460	U	-0.003	44371.72190	U	-0.067
44370.71737	U	-0.023	44371.72540	U	-0.087
44370.72015	U	-0.016	44371.72809	U	-0.098
44370.72293	U	0.006	44371.73131	U	-0.072
44370.72571	U	-0.032	44371.73372	U	-0.097
44370.72848	U	-0.022	44371.73628	U	-0.075
44370.73126	U	-0.007	44371.73871	U	-0.088
44370.73404	U	-0.046	44371.74198	U	-0.113
44370.73959	U	0.0	44371.74438	U	-0.098
44370.74237	U	0.036	44371.74669	U	-0.109
44370.78404	U	0.004	44371.74899	U	-0.124
44370.78683	U	-0.001	44371.75117	U	-0.078
44370.78959	U	0.016	44371.75840	U	-0.069
44370.79237	U	0.005	44371.76049	U	-0.068
44370.79515	U	-0.023	44371.76297	U	-0.085
44370.79792	U	0.032	44371.76524	U	-0.091
44370.80070	U	-0.025	44371.76751	U	-0.076
44370.80348	U	-0.005	44371.76971	U	-0.047
44370.80626	U	-0.035	44371.77210	U	-0.103
44370.80905	U	-0.016	44371.77439	U	-0.095
44370.81181	U	-0.032	44371.77666	U	-0.088
44370.81459	U	-0.034	44371.77870	U	-0.079
44370.81737	U	0.005	44371.78288	U	-0.051
44370.82014	U	-0.010	44371.78497	U	-0.078
44370.82292	U	-0.060	44371.78711	U	-0.096
44370.82570	U	-0.016	44371.78930	U	-0.092
44371.60381	U	-0.075	44371.79142	U	-0.070
44371.60617	U	-0.081	44371.79361	U	-0.100
44371.60850	U	-0.104	44371.79569	U	-0.060
44371.61119	U	-0.117	44371.79807	U	-0.091
44371.61359	U	-0.067	44371.80019	U	-0.117
44371.61610	U	-0.082	44371.80313	U	-0.083
44371.61841	U	-0.082	44371.80534	U	-0.079
44371.62116	U	-0.080	44371.80753	U	-0.108
44371.62399	U	-0.056	44371.80969	U	-0.108
44371.62651	U	-0.088	44371.81183	U	-0.083
44371.63005	U	-0.089	44371.81395	U	-0.067
44371.63233	U	-0.076	44371.81808	U	-0.111
44371.63471	U	-0.073	44371.82022	U	-0.044
44371.64135	U	-0.060	44371.82240	U	-0.096
44371.64381	U	-0.066	44371.82458	U	-0.080
44371.64620	U	-0.070	44371.82694	U	-0.081
44371.64886	U	-0.081	44378.58697	U	-0.149
44371.65124	U	-0.079	44378.58946	U	-0.102

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44378.59698	U	-0.121	44384.61769	U	-0.075
44378.59999	U	-0.131	44384.62079	U	0.008
44378.64915	U	-0.096	44384.62361	U	-0.070
44378.65201	U	-0.117	44384.62658	U	-0.032
44378.65574	U	-0.112	44384.62888	U	-0.039
44378.65846	U	-0.160	44384.63121	U	-0.046
44378.68725	U	-0.094	44384.63434	U	-0.040
44378.69022	U	-0.116	44384.63672	U	-0.061
44378.69252	U	-0.108	44384.64352	U	-0.062
44378.69500	U	-0.110	44384.64631	U	-0.072
44378.69765	U	-0.101	44384.64954	U	-0.036
44378.70034	U	-0.093	44384.65289	U	-0.056
44378.70304	U	-0.114	44384.65572	U	-0.042
44378.70635	U	-0.096	44384.66034	U	-0.093
44378.71278	U	-0.120	44384.66282	U	-0.073
44378.71595	U	-0.180	44384.66512	U	-0.086
44378.71924	U	-0.138	44384.66758	U	-0.049
44380.58394	U	-0.071	44384.67015	U	-0.042
44380.58730	U	-0.054	44384.67252	U	-0.050
44380.59062	U	-0.049	44384.67503	U	-0.048
44380.59429	U	-0.065	44384.67746	U	-0.058
44380.59667	U	-0.032	44384.68318	U	-0.055
44380.60044	U	-0.051	44384.68573	U	-0.020
44380.60276	U	-0.058	44384.68807	U	-0.051
44380.60535	U	-0.057	44384.69288	U	-0.087
44380.60881	U	-0.067	44384.69544	U	-0.034
44380.61155	U	-0.049	44384.69802	U	-0.058
44380.61399	U	-0.039	44384.70238	U	-0.090
44380.61715	U	-0.062	44384.70486	U	-0.022
44380.62396	U	-0.112	44384.70731	U	-0.044
44380.62634	U	-0.074	44384.70986	U	-0.048
44380.63208	U	-0.091	44384.71220	U	-0.087
44380.63494	U	-0.082	44384.74148	U	-0.035
44380.64165	U	-0.048	44384.74424	U	-0.050
44380.64429	U	-0.058	44386.58921	U	-0.104
44380.64673	U	-0.060	44386.59365	U	-0.087
44380.65077	U	-0.090	44386.59806	U	-0.135
44380.65334	U	-0.079	44386.60098	U	-0.098
44380.65620	U	-0.084	44386.60483	U	-0.144
44380.66385	U	-0.062	44386.60735	U	-0.084
44380.67003	U	-0.056	44386.61205	U	-0.112
44380.67235	U	-0.068	44386.61489	U	-0.111
44380.67498	U	-0.036	44386.62070	U	-0.068
44380.67978	U	-0.098	44386.62785	U	-0.128
44384.58738	U	-0.023	44386.63204	U	-0.131
44384.58951	U	-0.057	44386.63945	U	-0.059
44384.59165	U	-0.067	44386.64323	U	-0.070
44384.59376	U	-0.052	44386.64754	U	-0.084
44384.59871	U	-0.075	44386.65071	U	-0.093
44384.60116	U	-0.035	44386.65386	U	-0.082
44384.60366	U	-0.107	44386.65703	U	-0.092
44384.60615	U	-0.067	44386.66062	U	-0.104
44384.60837	U	-0.064	44386.66636	U	-0.119
44384.61314	U	-0.050	44386.66994	U	-0.127
44384.61542	U	-0.040	44386.67357	U	-0.133

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44386.67723	U	-0.082	44389.76050	U	-0.018
44386.68052	U	-0.047	44390.59139	U	-0.098
44386.68451	U	-0.094	44390.59564	U	-0.086
44386.68973	U	-0.070	44390.60035	U	-0.090
44386.69568	U	-0.059	44390.60485	U	-0.117
44386.69925	U	-0.112	44390.60801	U	-0.070
44386.70567	U	-0.136	44390.61247	U	-0.077
44386.70871	U	-0.141	44390.61552	U	-0.093
44386.71324	U	-0.135	44390.61850	U	-0.100
44386.71685	U	-0.131	44390.62167	U	-0.065
44386.72010	U	-0.053	44390.62546	U	-0.068
44386.72820	U	-0.122	44390.62973	U	-0.083
44386.73232	U	-0.151	44390.63365	U	-0.088
44386.73673	U	-0.078	44390.63665	U	-0.082
44386.74222	U	-0.115	44390.63991	U	-0.099
44386.74689	U	-0.101	44390.64436	U	-0.100
44386.75125	U	-0.131	44390.64751	U	-0.086
44386.75642	U	-0.096	44390.65057	U	-0.084
44386.76181	U	-0.167	44390.65376	U	-0.084
44389.58563	U	-0.048	44390.65713	U	-0.122
44389.59024	U	-0.060	44390.66041	U	-0.094
44389.59341	U	-0.064	44390.66342	U	-0.077
44389.59782	U	-0.059	44390.66676	U	-0.071
44389.60106	U	-0.035	44390.67012	U	-0.081
44389.60451	U	-0.075	44390.67484	U	-0.083
44389.60946	U	-0.073	44390.67787	U	-0.091
44389.61264	U	-0.062	44390.68130	U	-0.068
44389.61603	U	-0.078	44390.68451	U	-0.115
44389.62035	U	-0.051	44390.68776	U	-0.092
44389.62678	U	-0.052	44390.69236	U	-0.106
44389.63008	U	-0.037	44390.69603	U	-0.108
44389.63431	U	-0.039	44390.69924	U	-0.069
44389.63734	U	-0.058	44390.70216	U	-0.085
44389.64934	U	-0.040	44390.70528	U	-0.118
44389.65236	U	-0.022	44390.70854	U	-0.066
44389.65534	U	-0.050	44390.71259	U	-0.139
44389.65966	U	-0.014	44390.71681	U	-0.108
44389.66265	U	-0.026	44390.71973	U	-0.092
44389.66596	U	-0.099	44390.72274	U	-0.092
44389.69175	U	-0.020	44390.72592	U	-0.125
44389.69531	U	-0.043	44390.72899	U	-0.122
44389.69904	U	-0.049	44390.73209	U	-0.111
44389.70221	U	-0.016	44390.73653	U	-0.109
44389.70649	U	-0.038	44390.73983	U	-0.105
44389.70957	U	-0.044	44390.74308	U	-0.096
44389.71262	U	-0.020	44390.74625	U	-0.082
44389.72408	U	-0.012	44390.74940	U	-0.077
44389.72849	U	-0.039	44391.61319	U	-0.143
44389.73280	U	-0.045	44391.63131	U	-0.119
44389.73599	U	-0.039	44391.63464	U	-0.106
44389.73924	U	-0.082	44391.63779	U	-0.141
44389.74223	U	-0.088	44391.64114	U	-0.138
44389.74554	U	-0.013	44391.64441	U	-0.151
44389.74910	U	-0.064	44391.66597	U	-0.113
44389.75403	U	-0.053	44391.67129	U	-0.121

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HELIO. J.D.	FILTER	V−C	HELIO. J.D.	FILTER	V−C
44391.67495	U	−0.132	44394.70192	U	0.009
44391.67854	U	−0.142	44394.70466	U	−0.016
44391.68196	U	−0.147	44394.70744	U	−0.007
44391.68619	U	−0.117	44394.71024	U	−0.033
44391.69178	U	−0.135	44394.71298	U	−0.020
44391.69683	U	−0.120	44394.71577	U	0.002
44391.70035	U	−0.110	44394.71855	U	−0.069
44391.70342	U	−0.152	44394.72135	U	−0.016
44391.70657	U	−0.130	44394.72417	U	0.010
44391.71784	U	−0.201	44394.72688	U	−0.003
44391.72466	U	−0.115	44394.72966	U	0.036
44391.72829	U	−0.125	44394.73244	U	−0.009
44394.58800	U	−0.036	44394.73521	U	−0.020
44394.59078	U	−0.014	44394.73799	U	−0.044
44394.59356	U	−0.005	44394.74082	U	−0.063
44394.59634	U	−0.048	44394.74355	U	0.027
44394.59912	U	−0.057	44394.74632	U	−0.001
44394.60189	U	−0.031	44394.74910	U	0.029
44394.60467	U	−0.044	44394.75188	U	−0.042
44394.60745	U	−0.031	44394.75466	U	−0.046
44394.61022	U	−0.025	44394.75743	U	−0.068
44394.61300	U	−0.011	44394.76026	U	−0.060
44394.61578	U	−0.007	44394.76299	U	−0.049
44394.61856	U	0.004	44394.76577	U	−0.013
44394.62133	U	−0.006	44394.76855	U	−0.066
44394.62411	U	−0.013	44394.77130	U	−0.022
44394.62690	U	0.025	44394.77410	U	−0.002
44394.62967	U	0.043	44394.77690	U	−0.014
44394.63244	U	−0.022	44394.77967	U	0.005
44394.63522	U	−0.033	44394.78243	U	0.012
44394.63800	U	−0.004	44394.78521	U	−0.026
44394.64081	U	−0.019	44394.78799	U	−0.029
44394.64355	U	0.007	44394.79077	U	−0.087
44394.64634	U	−0.032	44394.79355	U	−0.057
44394.64911	U	−0.026	44395.61991	U	−0.085
44394.65206	U	−0.046	44395.62292	U	−0.097
44394.65466	U	0.002	44395.62636	U	−0.094
44394.65744	U	−0.040	44395.62951	U	−0.112
44394.66022	U	0.009	44395.63253	U	−0.072
44394.66300	U	−0.014	44395.63682	U	−0.089
44394.66577	U	−0.018	44395.63997	U	−0.088
44394.66855	U	0.002	44395.64302	U	−0.062
44394.67133	U	−0.010	44395.64644	U	−0.081
44394.67411	U	0.022	44395.64962	U	−0.058
44394.67689	U	0.013	44395.65310	U	−0.078
44394.68244	U	0.003	44395.65641	U	−0.040
44394.68522	U	−0.033	44395.66490	U	−0.101
44394.68800	U	−0.031	44395.66802	U	−0.089
44394.69077	U	−0.026	44395.67127	U	−0.090
44394.69359	U	0.006	44395.68043	U	−0.072
44394.69639	U	−0.033	44395.68374	U	−0.070
44394.69911	U	−0.011	44395.68708	U	−0.081
			44395.69043	U	−0.078

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44617.75377	V	0.676	44617.92033	V	0.741
44617.75740	V	0.693	44617.92395	V	0.717
44617.76036	V	0.699	44617.92640	V	0.714
44617.76339	V	0.661	44617.92897	V	0.713
44617.76630	V	0.664	44617.93144	V	0.686
44617.76926	V	0.674	44617.93492	V	0.685
44617.77200	V	0.724	44617.93743	V	0.640
44617.77566	V	0.730	44617.94060	V	0.629
44617.77843	V	0.730	44617.94316	V	0.599
44617.78102	V	0.707	44617.94566	V	0.576
44617.78381	V	0.741	44617.94809	V	0.560
44617.78644	V	0.755	44617.95144	V	0.551
44617.78930	V	0.725	44617.95482	V	0.479
44617.79210	V	0.700	44617.95894	V	-0.300
44617.79458	V	0.693	44622.77169	V	0.306
44617.79736	V	0.715	44622.77522	V	0.307
44617.80020	V	0.708	44622.77851	V	0.302
44617.80370	V	0.706	44622.78186	V	0.276
44617.80735	V	0.712	44622.78541	V	0.246
44617.80984	V	0.708	44622.78857	V	0.211
44617.81272	V	0.689	44622.79181	V	0.157
44617.81534	V	0.694	44622.79452	V	0.123
44617.81804	V	0.690	44622.79779	V	0.121
44617.82051	V	0.723	44622.80107	V	0.133
44617.82311	V	0.719	44622.80482	V	0.130
44617.82585	V	0.703	44622.80813	V	0.033
44617.82857	V	0.750	44622.81183	V	0.009
44617.83113	V	0.730	44622.81483	V	0.010
44617.83352	V	0.719	44622.81789	V	-0.004
44617.84090	V	0.703	44622.82140	V	-0.033
44617.84371	V	0.730	44622.82752	V	-0.033
44617.84654	V	0.715	44622.83076	V	-0.060
44617.84931	V	0.709	44622.83421	V	-0.104
44617.85202	V	0.708	44622.83762	V	-0.103
44617.85443	V	0.763	44622.84100	V	-0.134
44617.85736	V	0.738	44622.84420	V	-0.152
44617.85970	V	0.733	44622.84758	V	-0.157
44617.86233	V	0.739	44622.85092	V	-0.147
44617.86512	V	0.718	44622.85418	V	-0.187
44617.86780	V	0.718	44622.85779	V	-0.213
44617.87023	V	0.715	44622.86126	V	-0.224
44617.87291	V	0.738	44622.86484	V	-0.211
44617.87533	V	0.703	44622.86794	V	-0.239
44617.88705	V	0.732	44622.87128	V	-0.238
44617.88944	V	0.721	44622.87509	V	-0.214
44617.89217	V	0.723	44622.87834	V	-0.261
44617.89477	V	0.724	44622.88164	V	-0.248
44617.89865	V	0.742	44622.88537	V	-0.298
44617.90161	V	0.734	44622.88884	V	-0.315
44617.90433	V	0.733	44622.89247	V	-0.308
44617.90707	V	0.733	44622.89580	V	-0.306
44617.90942	V	0.723	44622.89855	V	-0.318
44617.91287	V	0.713	44622.90214	V	-0.332
44617.91542	V	0.734	44622.90550	V	-0.326
44617.91793	V	0.722	44622.90868	V	-0.294

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HELIO. J.D.	FILTER	V−C	HELIO. J.D.	FILTER	V−C
44629.74576	V	−0.217	44629.90135	V	−0.192
44629.74855	V	−0.243	44629.90411	V	−0.173
44629.75132	V	−0.203	44629.90699	V	−0.194
44629.75410	V	−0.201	44629.90972	V	−0.177
44629.75687	V	−0.164	44629.91244	V	−0.169
44629.75965	V	−0.185	44629.91522	V	−0.188
44629.76243	V	−0.178	44629.91800	V	−0.207
44629.76521	V	−0.174	44629.92077	V	−0.182
44629.76799	V	−0.178	44629.92355	V	−0.195
44629.77082	V	−0.179	44629.92633	V	−0.217
44629.77357	V	−0.199	44629.92911	V	−0.182
44629.77631	V	−0.199	44629.93189	V	−0.192
44629.77910	V	−0.209	44629.93466	V	−0.190
44629.78188	V	−0.147	44629.93744	V	−0.224
44629.78465	V	−0.153	44629.94022	V	−0.219
44629.78743	V	−0.155	44629.94300	V	−0.225
44629.79021	V	−0.198	44629.94578	V	−0.201
44629.79299	V	−0.163	44629.94855	V	−0.230
44629.79577	V	−0.179	44629.95134	V	−0.228
44629.79854	V	−0.156	44629.95411	V	−0.219
44629.80132	V	−0.181	44629.95701	V	−0.226
44629.80410	V	−0.183	44629.95967	V	−0.244
44629.80688	V	−0.180	44633.74131	V	−0.306
44629.80966	V	−0.187	44633.74682	V	−0.273
44629.81529	V	−0.200	44633.75045	V	−0.273
44629.81799	V	−0.199	44633.75490	V	−0.285
44629.82077	V	−0.152	44633.75979	V	−0.266
44629.82355	V	−0.151	44633.76490	V	−0.274
44629.82635	V	−0.156	44633.76911	V	−0.283
44629.82910	V	−0.150	44633.77397	V	−0.300
44629.83188	V	−0.148	44634.72555	V	−0.209
44629.83466	V	−0.149	44634.72895	V	−0.138
44629.83744	V	−0.178	44634.73327	V	−0.180
44629.84024	V	−0.173	44634.73679	V	−0.232
44629.84299	V	−0.164	44634.74034	V	−0.228
44629.84577	V	−0.153	44634.74367	V	−0.239
44629.84855	V	−0.174	44634.74688	V	−0.228
44629.85133	V	−0.161	44634.75268	V	−0.202
44629.85410	V	−0.140	44634.75589	V	−0.236
44629.85688	V	−0.158	44634.75917	V	−0.244
44629.85966	V	−0.183	44634.76183	V	−0.232
44629.86244	V	−0.183	44634.76520	V	−0.245
44629.86522	V	−0.179	44634.76830	V	−0.239
44629.86832	V	−0.204	44634.77153	V	−0.256
44629.87077	V	−0.180	44634.78093	V	−0.239
44629.87355	V	−0.188	44634.78402	V	−0.271
44629.87633	V	−0.160	44634.78726	V	−0.263
44629.87910	V	−0.216	44634.79040	V	−0.268
44629.88188	V	−0.204	44634.79346	V	−0.230
44629.88466	V	−0.181	44634.79903	V	−0.261
44629.88744	V	−0.151	44634.80210	V	−0.254
44629.89022	V	−0.171	44634.80538	V	−0.282
44629.89299	V	−0.188	44634.80870	V	−0.294
44629.89577	V	−0.168	44634.81164	V	−0.256
44629.89855	V	−0.170	44634.81474	V	−0.256

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44634.81738	V	-0.272	44660.68055	V	-0.382
44634.82049	V	-0.289	44660.68437	V	-0.365
44634.82346	V	-0.289	44660.68836	V	-0.374
44634.82613	V	-0.289	44660.69257	V	-0.369
44634.82934	V	-0.284	44660.69810	V	-0.372
44634.83250	V	-0.290	44660.70249	V	-0.347
44634.83561	V	-0.293	44660.70703	V	-0.373
44634.84037	V	-0.307	44660.71132	V	-0.384
44634.84331	V	-0.278	44660.71542	V	-0.376
44634.84659	V	-0.294	44660.71878	V	-0.370
44634.85087	V	-0.259	44660.72272	V	-0.385
44634.85425	V	-0.295	44660.72667	V	-0.368
44634.85731	V	-0.310	44660.73072	V	-0.384
44634.86061	V	-0.303	44660.73361	V	-0.370
44634.86371	V	-0.300	44662.68961	V	-0.269
44634.86720	V	-0.274	44662.69369	V	-0.288
44634.86985	V	-0.295	44662.69699	V	-0.267
44634.87297	V	-0.293	44662.70027	V	-0.269
44634.87599	V	-0.302	44662.70408	V	-0.258
44634.87919	V	-0.299	44662.70810	V	-0.271
44634.88266	V	-0.294	44662.71099	V	-0.273
44634.88581	V	-0.304	44662.71437	V	-0.270
44634.89010	V	-0.301	44662.71789	V	-0.270
44634.89186	V	-0.304	44662.72108	V	-0.297
44634.89516	V	-0.304	44662.72466	V	-0.284
44634.89843	V	-0.287	44662.72778	V	-0.292
44634.90173	V	-0.315	44662.73147	V	-0.261
44634.92070	V	-0.267	44662.73519	V	-0.290
44647.68881	V	-0.256	44662.74021	V	-0.287
44647.69161	V	-0.272	44662.74336	V	-0.307
44647.69413	V	-0.270	44662.74634	V	-0.283
44647.69656	V	-0.265	44662.74918	V	-0.281
44647.69889	V	-0.313	44662.75203	V	-0.278
44647.70108	V	-0.281	44662.75505	V	-0.288
44659.69601	V	-0.361	44662.75882	V	-0.280
44659.70616	V	-0.351	44662.76267	V	-0.313
44659.70903	V	-0.386	44662.76664	V	-0.297
44659.71424	V	-0.369	44662.76923	V	-0.281
44659.71765	V	-0.368	44662.77185	V	-0.274
44659.72097	V	-0.362	44662.77525	V	-0.294
44659.72334	V	-0.376	44669.71890	V	-0.392
44659.72553	V	-0.351	44669.72258	V	-0.380
44659.72839	V	-0.369	44669.72600	V	-0.402
44659.73129	V	-0.378	44669.72929	V	-0.182
44659.73493	V	-0.367	44669.73269	V	-0.397
44659.73688	V	-0.371	44669.73562	V	-0.395
44659.73982	V	-0.394	44669.73995	V	-0.413
44659.74226	V	-0.393	44669.74310	V	-0.400
44659.74934	V	-0.380	44669.74621	V	-0.371
44659.75270	V	-0.378	44669.74920	V	-0.388
44659.75512	V	-0.347	44669.75229	V	-0.379
44659.76147	V	-0.361	44701.72657	V	-0.196
44659.76611	V	-0.361	44701.72935	V	-0.211
44659.76934	V	-0.408	44701.73213	V	-0.217
44660.67570	V	-0.398	44701.73491	V	-0.218

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44701.73768	V	-0.206	44701.89046	V	-0.202
44701.74046	V	-0.193	44701.89323	V	-0.202
44701.74324	V	-0.205	44701.89601	V	-0.211
44701.74602	V	-0.195	44701.89879	V	-0.213
44701.74879	V	-0.191	44701.90157	V	-0.201
44701.75157	V	-0.175	44701.90435	V	-0.202
44701.75435	V	-0.203	44701.90712	V	-0.210
44701.75713	V	-0.195	44722.72060	V	-0.383
44701.75990	V	-0.189	44722.72365	V	-0.370
44701.76268	V	-0.191	44722.72950	V	-0.377
44701.76545	V	-0.194	44722.73271	V	-0.379
44701.76824	V	-0.202	44722.73608	V	-0.367
44701.77102	V	-0.183	44727.61281	V	-0.379
44701.77379	V	-0.181	44727.61579	V	-0.367
44701.77657	V	-0.193	44727.61877	V	-0.357
44701.77935	V	-0.196	44727.62993	V	-0.377
44701.78213	V	-0.193	44727.63281	V	-0.374
44701.78490	V	-0.195	44728.70672	V	-0.266
44701.78768	V	-0.199	44728.71015	V	-0.269
44701.79046	V	-0.182	44728.71374	V	-0.278
44701.79324	V	-0.196	44728.71727	V	-0.268
44701.79601	V	-0.190	44728.72067	V	-0.230
44701.79879	V	-0.199	44728.72643	V	-0.281
44701.80157	V	-0.190	44728.72956	V	-0.261
44701.80435	V	-0.190	44728.73246	V	-0.265
44701.80713	V	-0.183	44728.73551	V	-0.276
44701.80990	V	-0.189	44738.78999	V	-0.255
44701.81268	V	-0.188	44738.79321	V	-0.229
44701.81546	V	-0.181	44738.79475	V	-0.233
44701.81824	V	-0.184	44738.79997	V	-0.258
44701.82101	V	-0.182	44738.80315	V	-0.252
44701.82379	V	-0.164	44762.59927	V	-0.248
44701.82657	V	-0.182	44762.60235	V	-0.265
44701.82935	V	-0.180	44762.60610	V	-0.259
44701.83213	V	-0.188	44762.60910	V	-0.244
44701.83496	V	-0.187	44764.72634	V	-0.309
44701.83768	V	-0.183	44764.73076	V	-0.315
44701.84046	V	-0.173	44764.73490	V	-0.329
44701.84324	V	-0.176	44764.73785	V	-0.333
44701.84601	V	-0.183	44764.74238	V	-0.317
44701.84879	V	-0.176	44764.74545	V	-0.301
44701.85157	V	-0.195	44764.74969	V	-0.337
44701.85435	V	-0.203	44764.75293	V	-0.329
44701.85712	V	-0.192	44617.75406	B	1.071
44701.85990	V	-0.182	44617.75769	B	1.137
44701.86268	V	-0.190	44617.76068	B	1.147
44701.86548	V	-0.195	44617.76371	B	1.075
44701.86824	V	-0.172	44617.76661	B	1.110
44701.87100	V	-0.173	44617.76956	B	1.128
44701.87379	V	-0.207	44617.77231	B	1.173
44701.87658	V	-0.212	44617.77595	B	1.154
44701.87935	V	-0.194	44617.77872	B	1.150
44701.88212	V	-0.198	44617.78132	B	1.131
44701.88490	V	-0.197	44617.78410	B	1.174
44701.88768	V	-0.201	44617.78673	B	1.209

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44617.78964	B	1.151	44617.95510	B	0.809
44617.79245	B	1.130	44617.95929	B	0.801
44617.79488	B	1.123	44622.77221	B	0.603
44617.79767	B	1.143	44622.77563	B	0.562
44617.80052	B	1.134	44622.77890	B	0.557
44617.80397	B	1.134	44622.78226	B	0.510
44617.80763	B	1.180	44622.78579	B	0.500
44617.81014	B	1.150	44622.78896	B	0.448
44617.81303	B	1.144	44622.79222	B	0.404
44617.81563	B	1.122	44622.79489	B	0.362
44617.81833	B	1.126	44622.79819	B	0.347
44617.82080	B	1.154	44622.80146	B	0.347
44617.82341	B	1.167	44622.80527	B	0.350
44617.82614	B	1.123	44622.80854	B	0.227
44617.82885	B	1.168	44622.81223	B	0.174
44617.83141	B	1.154	44622.81523	B	0.183
44617.83381	B	1.153	44622.81832	B	0.186
44617.84118	B	1.145	44622.82180	B	0.121
44617.84414	B	1.212	44622.82790	B	0.125
44617.84684	B	1.165	44622.83114	B	0.089
44617.84961	B	1.168	44622.83464	B	0.060
44617.85230	B	1.165	44622.83817	B	0.040
44617.85473	B	1.217	44622.84139	B	0.026
44617.85762	B	1.198	44622.84460	B	-0.002
44617.85999	B	1.161	44622.84798	B	-0.018
44617.86262	B	1.187	44622.85131	B	-0.003
44617.86543	B	1.160	44622.85464	B	-0.058
44617.86808	B	1.179	44622.85833	B	-0.075
44617.87055	B	1.171	44622.86170	B	-0.090
44617.87318	B	1.175	44622.86523	B	-0.064
44617.87560	B	1.173	44622.86832	B	-0.110
44617.88735	B	1.193	44622.87171	B	-0.111
44617.88974	B	1.195	44622.87555	B	-0.094
44617.89245	B	1.183	44622.87875	B	-0.152
44617.89507	B	1.182	44622.88204	B	-0.129
44617.89895	B	1.210	44622.88578	B	-0.179
44617.90189	B	1.194	44622.88932	B	-0.193
44617.90464	B	1.155	44622.89293	B	-0.193
44617.90735	B	1.174	44622.89619	B	-0.204
44617.91042	B	1.167	44622.89901	B	-0.220
44617.91316	B	1.164	44622.90254	B	-0.214
44617.91570	B	1.179	44622.90594	B	-0.207
44617.91822	B	1.182	44622.90946	B	-0.199
44617.92115	B	1.171	44629.74605	B	-0.132
44617.92425	B	1.177	44629.74883	B	-0.165
44617.92669	B	1.157	44629.75161	B	-0.136
44617.92924	B	1.152	44629.75439	B	-0.094
44617.93174	B	1.099	44629.75716	B	-0.105
44617.93521	B	1.098	44629.75994	B	-0.127
44617.93771	B	1.053	44629.76272	B	-0.095
44617.94089	B	1.077	44629.76550	B	-0.104
44617.94344	B	0.986	44629.76828	B	-0.149
44617.94594	B	0.955	44629.77108	B	-0.113
44617.94837	B	0.928	44629.77383	B	-0.106
44617.95172	B	0.919	44629.77661	B	-0.115

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44629.77939	B	-0.141	44629.93773	B	-0.122
44629.78217	B	-0.048	44629.94051	B	-0.125
44629.78496	B	-0.083	44629.94330	B	-0.137
44629.78772	B	-0.041	44629.94607	B	-0.092
44629.79050	B	-0.099	44629.94884	B	-0.131
44629.79328	B	-0.066	44629.95164	B	-0.133
44629.79606	B	-0.099	44629.95440	B	-0.138
44629.79885	B	-0.088	44629.95730	B	-0.118
44629.80161	B	-0.102	44629.95994	B	-0.147
44629.80440	B	-0.106	44633.74174	B	-0.176
44629.80717	B	-0.092	44633.74722	B	-0.157
44629.80996	B	-0.094	44633.75080	B	-0.162
44629.81556	B	-0.097	44633.75526	B	-0.168
44629.81828	B	-0.115	44633.76011	B	-0.162
44629.82106	B	-0.062	44633.76521	B	-0.167
44629.82382	B	-0.081	44633.76944	B	-0.180
44629.82665	B	-0.060	44633.77427	B	-0.194
44629.82939	B	-0.060	44634.72597	B	-0.126
44629.83217	B	-0.050	44634.72935	B	-0.094
44629.83495	B	-0.052	44634.73368	B	-0.078
44629.83772	B	-0.090	44634.73721	B	-0.125
44629.84051	B	-0.087	44634.74076	B	-0.133
44629.84328	B	-0.072	44634.74405	B	-0.151
44629.84606	B	-0.076	44634.74762	B	-0.009
44629.84884	B	-0.105	44634.75308	B	-0.105
44629.85161	B	-0.083	44634.75629	B	-0.147
44629.85439	B	-0.055	44634.75956	B	-0.157
44629.85717	B	-0.085	44634.76224	B	-0.143
44629.85995	B	-0.108	44634.76559	B	-0.150
44629.86275	B	-0.125	44634.76871	B	-0.159
44629.86550	B	-0.088	44634.77195	B	-0.166
44629.86858	B	-0.119	44634.78131	B	-0.149
44629.87106	B	-0.085	44634.78442	B	-0.198
44629.87383	B	-0.100	44634.78767	B	-0.171
44629.87939	B	-0.122	44634.79078	B	-0.159
44629.88217	B	-0.117	44634.79385	B	-0.130
44629.88495	B	-0.101	44634.79943	B	-0.158
44629.88773	B	-0.065	44634.80247	B	-0.153
44629.89051	B	-0.084	44634.80576	B	-0.187
44629.89328	B	-0.106	44634.80909	B	-0.195
44629.89609	B	-0.079	44634.81203	B	-0.143
44629.89884	B	-0.098	44634.81516	B	-0.152
44629.90159	B	-0.117	44634.81775	B	-0.166
44629.90440	B	-0.093	44634.82086	B	-0.179
44629.90723	B	-0.103	44634.82386	B	-0.188
44629.90999	B	-0.098	44634.82650	B	-0.181
44629.91273	B	-0.092	44634.82973	B	-0.169
44629.91551	B	-0.109	44634.83287	B	-0.187
44629.91829	B	-0.146	44634.83598	B	-0.194
44629.92106	B	-0.084	44634.84074	B	-0.198
44629.92384	B	-0.112	44634.84370	B	-0.163
44629.92662	B	-0.137	44634.84700	B	-0.179
44629.92946	B	-0.110	44634.85126	B	-0.124
44629.93218	B	-0.106	44634.85464	B	-0.183
44629.93495	B	-0.102	44634.85772	B	-0.186

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44634.86099	B	-0.193	44660.73102	B	-0.248
44634.86412	B	-0.195	44660.73394	B	-0.251
44634.86759	B	-0.155	44662.68989	B	-0.158
44634.87024	B	-0.170	44662.69400	B	-0.192
44634.87336	B	-0.169	44662.69731	B	-0.158
44634.87639	B	-0.182	44662.70055	B	-0.150
44634.87959	B	-0.170	44662.70437	B	-0.155
44634.88307	B	-0.171	44662.70643	B	-0.159
44634.88620	B	-0.197	44662.71129	B	-0.178
44634.88964	B	-0.161	44662.71466	B	-0.155
44634.89227	B	-0.190	44662.71819	B	-0.148
44634.89554	B	-0.178	44662.72138	B	-0.182
44634.89904	B	-0.177	44662.72496	B	-0.177
44634.90212	B	-0.195	44662.72806	B	-0.183
44634.92108	B	-0.124	44662.73175	B	-0.166
44647.68909	B	-0.148	44662.73547	B	-0.181
44647.69188	B	-0.192	44662.74069	B	-0.172
44647.69439	B	-0.166	44662.74365	B	-0.191
44647.69683	B	-0.196	44662.74662	B	-0.171
44647.69914	B	-0.222	44662.74947	B	-0.173
44647.70134	B	-0.164	44662.75235	B	-0.176
44659.69624	B	-0.264	44662.75536	B	-0.181
44659.70634	B	-0.215	44662.75911	B	-0.175
44659.70921	B	-0.238	44662.76296	B	-0.198
44659.71442	B	-0.245	44662.76694	B	-0.164
44659.71781	B	-0.254	44662.76952	B	-0.151
44659.72116	B	-0.244	44662.77213	B	-0.186
44659.72359	B	-0.252	44662.77554	B	-0.184
44659.72571	B	-0.211	44669.71928	B	-0.252
44659.72856	B	-0.238	44669.72293	B	-0.252
44659.73147	B	-0.254	44669.72658	B	-0.259
44659.73510	B	-0.239	44669.72969	B	-0.258
44659.73704	B	-0.248	44669.73307	B	-0.271
44659.74004	B	-0.241	44669.73599	B	-0.268
44659.74244	B	-0.237	44669.74033	B	-0.280
44659.74954	B	-0.261	44669.74348	B	-0.272
44659.75290	B	-0.224	44669.74662	B	-0.259
44659.75531	B	-0.228	44669.74958	B	-0.261
44659.75810	B	-0.229	44669.75268	B	-0.261
44659.76163	B	-0.230	44701.72686	B	-0.115
44659.76630	B	-0.198	44701.72964	B	-0.122
44659.76952	B	-0.195	44701.73242	B	-0.117
44660.67608	B	-0.292	44701.73519	B	-0.110
44660.68085	B	-0.259	44701.73797	B	-0.114
44660.68467	B	-0.254	44701.74075	B	-0.122
44660.68866	B	-0.243	44701.74353	B	-0.110
44660.69286	B	-0.244	44701.74631	B	-0.115
44660.69842	B	-0.251	44701.74908	B	-0.108
44660.70279	B	-0.222	44701.75186	B	-0.099
44660.70740	B	-0.252	44701.75464	B	-0.105
44660.71168	B	-0.253	44701.75742	B	-0.109
44660.71575	B	-0.254	44701.76019	B	-0.104
44660.71912	B	-0.253	44701.76297	B	-0.096
44660.72301	B	-0.249	44701.76575	B	-0.105
44660.72696	B	-0.251	44701.76853	B	-0.105

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44701.77130	B	-0.095	44727.60996	B	-0.247
44701.77408	B	-0.098	44727.61322	B	-0.237
44701.77686	B	-0.110	44727.61619	B	-0.229
44701.77964	B	-0.118	44727.61917	B	-0.240
44701.78242	B	-0.106	44727.63032	B	-0.249
44701.78519	B	-0.092	44727.63319	B	-0.246
44701.78797	B	-0.097	44728.70714	B	-0.170
44701.79075	B	-0.099	44728.71061	B	-0.155
44701.79353	B	-0.101	44728.71418	B	-0.143
44701.79632	B	-0.095	44728.71766	B	-0.155
44701.79906	B	-0.093	44728.72106	B	-0.130
44701.80186	B	-0.093	44728.72680	B	-0.191
44701.80464	B	-0.104	44728.72994	B	-0.161
44701.80742	B	-0.092	44728.73286	B	-0.130
44701.81019	B	-0.110	44728.73588	B	-0.176
44701.81297	B	-0.115	44738.79041	B	-0.156
44701.81575	B	-0.103	44738.79379	B	-0.125
44701.81851	B	-0.101	44738.80036	B	-0.168
44701.82130	B	-0.101	44738.80354	B	-0.164
44701.82408	B	-0.081	44762.59964	B	-0.148
44701.82686	B	-0.101	44762.60273	B	-0.153
44701.82964	B	-0.099	44762.60647	B	-0.137
44701.83241	B	-0.099	44762.60948	B	-0.138
44701.83797	B	-0.099	44764.72672	B	-0.213
44701.84075	B	-0.100	44764.73115	B	-0.194
44701.84351	B	-0.098	44764.73528	B	-0.207
44701.84630	B	-0.092	44764.73823	B	-0.207
44701.84909	B	-0.099	44764.74276	B	-0.190
44701.85186	B	-0.102	44764.74584	B	-0.195
44701.85464	B	-0.092	44764.75006	B	-0.220
44701.85741	B	-0.109	44764.75332	B	-0.209
44701.86019	B	-0.104	44617.75435	U	1.531
44701.86298	B	-0.100	44617.75799	U	1.651
44701.86576	B	-0.112	44617.76097	U	1.661
44701.86854	B	-0.094	44617.76399	U	1.629
44701.87130	B	-0.105	44617.76688	U	1.587
44701.87409	B	-0.121	44617.76984	U	1.633
44701.87688	B	-0.106	44617.77264	U	1.615
44701.87964	B	-0.108	44617.77622	U	1.641
44701.88241	B	-0.107	44617.77901	U	1.715
44701.88519	B	-0.111	44617.78160	U	1.647
44701.88797	B	-0.118	44617.78439	U	1.688
44701.89075	B	-0.120	44617.78703	U	1.715
44701.89352	B	-0.111	44617.78992	U	1.666
44701.89629	B	-0.121	44617.79273	U	1.617
44701.89908	B	-0.120	44617.79518	U	1.659
44701.90186	B	-0.122	44617.79796	U	1.602
44701.90465	B	-0.112	44617.80088	U	1.642
44701.90742	B	-0.121	44617.80424	U	1.649
44722.72098	B	-0.243	44617.80791	U	1.690
44722.72404	B	-0.233	44617.81041	U	1.636
44722.72988	B	-0.242	44617.81329	U	1.623
44722.73309	B	-0.255	44617.81591	U	1.663
44722.73646	B	-0.244	44617.81860	U	1.613
44727.60668	B	-0.247	44617.82108	U	1.644

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44617.82369	U	1.642	44622.80893	U	0.415
44617.82642	U	1.589	44622.81263	U	0.340
44617.82915	U	1.660	44622.81563	U	0.341
44617.83168	U	1.657	44622.81872	U	0.327
44617.83410	U	1.664	44622.82219	U	0.293
44617.84150	U	1.630	44622.82828	U	0.273
44617.84442	U	1.706	44622.83155	U	0.238
44617.84713	U	1.614	44622.83508	U	0.200
44617.84994	U	1.649	44622.83858	U	0.188
44617.85258	U	1.613	44622.84179	U	0.184
44617.85512	U	1.666	44622.84501	U	0.148
44617.85795	U	1.717	44622.84838	U	0.123
44617.86027	U	1.697	44622.85172	U	0.133
44617.86291	U	1.662	44622.85510	U	0.061
44617.86573	U	1.646	44622.85885	U	0.042
44617.86835	U	1.683	44622.86207	U	0.040
44617.87084	U	1.642	44622.86563	U	0.064
44617.87350	U	1.666	44622.86877	U	0.010
44617.87588	U	1.669	44622.87211	U	0.043
44617.88764	U	1.683	44622.87598	U	0.016
44617.89001	U	1.659	44622.87925	U	-0.039
44617.89273	U	1.670	44622.88242	U	-0.014
44617.89533	U	1.642	44622.88631	U	-0.056
44617.90216	U	1.694	44622.88971	U	-0.072
44617.90497	U	1.657	44622.89331	U	-0.080
44617.90764	U	1.687	44622.89657	U	-0.084
44617.91068	U	1.630	44622.89941	U	-0.119
44617.91350	U	1.731	44622.90295	U	-0.122
44617.91597	U	1.705	44622.90633	U	-0.122
44617.91850	U	1.687	44622.90985	U	-0.114
44617.92141	U	1.659	44629.74634	U	-0.047
44617.92453	U	1.637	44629.74912	U	-0.080
44617.92698	U	1.602	44629.75190	U	-0.067
44617.92952	U	1.609	44629.75468	U	-0.042
44617.93202	U	1.606	44629.75745	U	-0.023
44617.93549	U	1.552	44629.76023	U	-0.027
44617.93800	U	1.467	44629.76301	U	-0.036
44617.94118	U	1.589	44629.76579	U	-0.036
44617.94372	U	1.475	44629.76857	U	-0.037
44617.94623	U	1.308	44629.77134	U	-0.068
44617.94865	U	1.298	44629.77412	U	-0.014
44617.95239	U	1.249	44629.77690	U	0.0
44617.95541	U	1.212	44629.77967	U	-0.042
44617.95971	U	1.142	44629.78246	U	-0.008
44622.77261	U	0.862	44629.78523	U	-0.016
44622.77608	U	0.798	44629.78801	U	0.055
44622.77930	U	0.821	44629.79079	U	-0.009
44622.78265	U	0.744	44629.79358	U	-0.011
44622.78621	U	0.716	44629.79633	U	-0.003
44622.78936	U	0.666	44629.79912	U	-0.013
44622.79261	U	0.610	44629.80191	U	-0.061
44622.79528	U	0.594	44629.80468	U	-0.004
44622.79858	U	0.538	44629.80746	U	0.003
44622.80186	U	0.547	44629.81023	U	-0.039
44622.80567	U	0.538	44629.81583	U	0.004

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44629.81857	U	-0.016	44633.75558	U	-0.069
44629.82135	U	0.039	44633.76052	U	-0.115
44629.82412	U	0.012	44633.76554	U	-0.086
44629.82694	U	-0.003	44633.76973	U	-0.109
44629.82968	U	0.037	44633.77458	U	-0.081
44629.83245	U	0.007	44634.72637	U	-0.044
44629.83524	U	0.007	44634.72975	U	0.018
44629.83801	U	-0.006	44634.73413	U	0.007
44629.84080	U	0.014	44634.73762	U	-0.069
44629.84357	U	-0.031	44634.74118	U	-0.056
44629.84635	U	0.002	44634.74449	U	-0.071
44629.84913	U	-0.012	44634.74802	U	0.046
44629.85190	U	-0.001	44634.75348	U	-0.024
44629.85468	U	0.025	44634.75669	U	-0.084
44629.85744	U	-0.016	44634.75996	U	-0.079
44629.86024	U	-0.021	44634.76262	U	-0.066
44629.86304	U	-0.046	44634.76600	U	-0.056
44629.86579	U	-0.021	44634.76912	U	-0.090
44629.86884	U	-0.035	44634.77234	U	-0.128
44629.87135	U	-0.038	44634.78171	U	-0.119
44629.87413	U	-0.031	44634.78482	U	-0.104
44629.87691	U	0.024	44634.78804	U	-0.085
44629.87968	U	-0.041	44634.79116	U	-0.064
44629.88246	U	-0.038	44634.79423	U	-0.061
44629.88524	U	-0.029	44634.79981	U	-0.063
44629.88802	U	0.014	44634.80285	U	-0.089
44629.89080	U	0.012	44634.80615	U	-0.071
44629.89357	U	-0.010	44634.80949	U	-0.080
44629.89635	U	0.019	44634.81243	U	-0.050
44629.89913	U	-0.026	44634.81556	U	-0.064
44629.90185	U	-0.033	44634.81813	U	-0.074
44629.90469	U	-0.025	44634.82123	U	-0.108
44629.90751	U	-0.040	44634.82423	U	-0.088
44629.91024	U	-0.020	44634.82689	U	-0.096
44629.91302	U	-0.019	44634.83012	U	-0.096
44629.91580	U	-0.035	44634.83324	U	-0.100
44629.91856	U	-0.057	44634.83637	U	-0.113
44629.92153	U	-0.039	44634.84117	U	-0.100
44629.92414	U	-0.003	44634.84418	U	-0.096
44629.92691	U	-0.063	44634.84738	U	-0.086
44629.92973	U	-0.044	44634.85170	U	-0.058
44629.93246	U	-0.025	44634.85504	U	-0.105
44629.93524	U	-0.023	44634.85810	U	-0.099
44629.93803	U	-0.037	44634.86139	U	-0.107
44629.94080	U	-0.028	44634.86451	U	-0.106
44629.94358	U	-0.046	44634.86798	U	-0.058
44629.94635	U	0.001	44634.87064	U	-0.067
44629.94913	U	-0.037	44634.87374	U	-0.067
44629.95192	U	-0.032	44634.87677	U	-0.087
44629.95468	U	-0.061	44634.87998	U	-0.068
44629.95758	U	-0.051	44634.88347	U	-0.064
44629.96024	U	-0.093	44634.88662	U	-0.085
44633.74207	U	-0.069	44634.88916	U	-0.105
44633.74757	U	-0.035	44634.89265	U	-0.067
44633.75112	U	-0.048	44634.89593	U	-0.087

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44634.89945	U	-0.078	44662.72526	U	-0.080
44634.90252	U	-0.086	44662.72835	U	-0.075
44634.92180	U	-0.035	44662.73204	U	-0.066
44647.68936	U	-0.089	44662.73574	U	-0.115
44647.69214	U	-0.121	44662.74096	U	-0.093
44647.69464	U	-0.095	44662.74395	U	-0.061
44647.69710	U	-0.108	44662.74689	U	-0.107
44647.69941	U	-0.151	44662.74976	U	-0.080
44647.70162	U	-0.064	44662.75263	U	-0.068
44659.69643	U	-0.127	44662.75565	U	-0.077
44659.70652	U	-0.106	44662.75940	U	-0.090
44659.70943	U	-0.150	44662.76325	U	-0.108
44659.71467	U	-0.158	44662.76723	U	-0.098
44659.71804	U	-0.137	44662.76980	U	-0.084
44659.72136	U	-0.150	44662.77242	U	-0.083
44659.72379	U	-0.134	44662.77580	U	-0.113
44659.72590	U	-0.123	44669.71964	U	-0.145
44659.72873	U	-0.108	44669.72330	U	-0.138
44659.73170	U	-0.105	44669.72697	U	-0.146
44659.73530	U	-0.131	44669.73008	U	-0.140
44659.73723	U	-0.134	44669.73344	U	-0.168
44659.74022	U	-0.135	44669.73642	U	-0.160
44659.74262	U	-0.108	44669.74072	U	-0.162
44659.74976	U	-0.145	44669.74387	U	-0.210
44659.75307	U	-0.107	44669.74700	U	-0.186
44659.75549	U	-0.099	44669.74997	U	-0.150
44659.75827	U	-0.125	44669.75307	U	-0.168
44659.76194	U	-0.102	44701.72715	U	-0.051
44659.76647	U	-0.099	44701.72993	U	-0.033
44659.76972	U	-0.132	44701.73271	U	-0.016
44660.67638	U	-0.132	44701.73548	U	-0.005
44660.68117	U	-0.111	44701.73826	U	-0.039
44660.68499	U	-0.160	44701.74104	U	-0.054
44660.68896	U	-0.160	44701.74382	U	-0.041
44660.69316	U	-0.120	44701.74659	U	-0.050
44660.69871	U	-0.138	44701.74937	U	-0.021
44660.70309	U	-0.116	44701.75215	U	-0.052
44660.70785	U	-0.121	44701.75493	U	-0.041
44660.71199	U	-0.126	44701.75771	U	-0.053
44660.71606	U	-0.139	44701.76048	U	-0.060
44660.71941	U	-0.127	44701.76326	U	-0.028
44660.72334	U	-0.152	44701.76604	U	-0.027
44660.72725	U	-0.154	44701.76882	U	-0.040
44660.73129	U	-0.143	44701.77159	U	-0.015
44660.73422	U	-0.130	44701.77437	U	-0.029
44662.69019	U	-0.037	44701.77716	U	-0.019
44662.69431	U	-0.121	44701.77993	U	-0.044
44662.69761	U	-0.061	44701.78270	U	-0.033
44662.70086	U	-0.048	44701.78549	U	-0.013
44662.70466	U	-0.066	44701.78826	U	-0.019
44662.70873	U	-0.042	44701.79104	U	-0.032
44662.71159	U	-0.038	44701.79382	U	-0.056
44662.71496	U	-0.079	44701.79659	U	-0.045
44662.71848	U	-0.082	44701.79937	U	-0.033
44662.72168	U	-0.101	44701.80215	U	-0.020

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44701.80493	U	-0.036	44722.72136	U	-0.148
44701.80770	U	-0.028	44722.72450	U	-0.124
44701.81048	U	-0.038	44722.73024	U	-0.119
44701.81326	U	-0.019	44722.73347	U	-0.128
44701.81604	U	-0.004	44722.73683	U	-0.101
44701.81883	U	-0.020	44727.60628	V	-0.377
44701.82157	U	-0.030	44727.60957	V	-0.374
44701.82437	U	-0.028	44727.60706	U	-0.133
44701.82715	U	-0.033	44727.61036	U	-0.144
44701.82993	U	-0.033	44727.61360	U	-0.130
44701.83270	U	-0.028	44727.61657	U	-0.136
44701.83569	U	-0.029	44727.61956	U	-0.125
44701.83826	U	-0.017	44727.63069	U	-0.136
44701.84104	U	-0.037	44727.63356	U	-0.145
44701.84381	U	-0.022	44728.70755	U	-0.074
44701.84659	U	-0.022	44728.71101	U	-0.053
44701.84936	U	-0.039	44728.71458	U	-0.066
44701.85215	U	-0.033	44728.71806	U	-0.083
44701.85493	U	-0.027	44728.72160	U	-0.008
44701.85770	U	-0.029	44728.72718	U	-0.073
44701.86048	U	-0.015	44728.73032	U	-0.072
44701.86326	U	-0.038	44728.73324	U	-0.035
44701.86605	U	-0.007	44728.73627	U	-0.067
44701.86884	U	-0.020	44738.79079	U	-0.068
44701.87158	U	-0.030	44738.79417	U	-0.023
44701.87440	U	-0.050	44738.80074	U	-0.076
44701.87717	U	-0.043	44738.80392	U	-0.083
44701.87992	U	-0.031	44762.60002	U	-0.057
44701.88270	U	-0.023	44762.60312	U	-0.065
44701.88548	U	-0.037	44762.60684	U	-0.048
44701.88826	U	-0.027	44762.60988	U	-0.038
44701.89104	U	-0.035	44764.72709	U	-0.075
44701.89381	U	-0.015	44764.73152	U	-0.067
44701.89659	U	-0.022	44764.73566	U	-0.097
44701.89937	U	0.001	44764.73861	U	-0.114
44701.90215	U	-0.021	44764.74315	U	-0.113
44701.90494	U	-0.032	44764.74622	U	-0.066
44701.90770	U	-0.050	44764.75045	U	-0.096
			44764.75369	U	-0.095

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44345.62884	V	1.127	44345.78375	V	0.633
44345.63141	V	1.136	44345.78672	V	0.643
44345.63400	V	1.142	44345.78902	V	0.658
44345.63626	V	1.124	44345.79135	V	0.643
44345.63865	V	1.148	44345.79351	V	0.660
44345.64099	V	1.149	44345.79559	V	0.646
44345.64336	V	1.147	44345.79801	V	0.633
44345.64570	V	1.087	44345.80147	V	0.630
44345.64818	V	1.126	44345.80391	V	0.647
44345.65051	V	1.096	44345.80630	V	0.670
44345.65401	V	1.126	44345.80880	V	0.643
44345.65645	V	1.105	44345.81131	V	0.647
44345.65887	V	1.094	44345.81360	V	0.637
44345.66110	V	1.094	44345.81602	V	0.624
44345.66416	V	1.062	44345.81904	V	0.644
44345.66667	V	1.078	44345.82129	V	0.628
44345.66885	V	1.092	44345.82342	V	0.648
44345.67132	V	1.070	44345.82582	V	0.643
44345.67338	V	1.087	44345.82815	V	0.655
44345.67571	V	1.051	44345.83097	V	0.676
44345.67806	V	1.043	44345.83310	V	0.685
44345.68079	V	1.074	44345.83548	V	0.649
44345.68562	V	1.052	44345.84332	V	0.639
44345.68782	V	1.044	44345.84560	V	0.628
44345.69020	V	1.022	44345.84789	V	0.640
44345.69247	V	0.997	44345.85019	V	0.620
44345.69546	V	0.996	44345.85293	V	0.629
44345.69878	V	1.015	44345.85513	V	0.669
44345.70134	V	0.974	44345.85744	V	0.610
44345.70372	V	0.988	44345.86009	V	0.658
44345.70597	V	1.012	44345.86229	V	0.639
44345.71510	V	0.926	44345.86431	V	0.657
44345.71752	V	0.918	44350.73727	V	0.611
44345.71974	V	0.949	44350.74105	V	0.623
44345.72180	V	0.918	44350.74510	V	0.640
44345.72468	V	0.908	44350.81041	V	0.648
44345.72687	V	0.895	44350.81253	V	0.622
44345.72911	V	0.890	44350.81475	V	0.648
44345.73139	V	0.849	44350.81703	V	0.625
44345.73362	V	0.851	44350.82323	V	0.626
44345.74156	V	0.819	44350.82551	V	0.650
44345.74367	V	0.832	44365.59908	V	0.702
44348.74609	V	0.815	44365.60116	V	0.714
44345.74866	V	0.816	44365.60328	V	0.753
44345.75103	V	0.790	44365.60533	V	0.716
44345.75342	V	0.798	44365.60741	V	0.750
44345.75621	V	0.736	44365.60949	V	0.740
44345.75621	V	0.736	44365.61158	V	0.736
44345.75871	V	0.782	44365.61366	V	0.723
44345.76314	V	0.761	44365.61574	V	0.688
44345.76548	V	0.697	44365.61783	V	0.692
44345.77444	V	0.694	44365.61991	V	0.722
44345.77692	V	0.698	44365.62199	V	0.775
44345.77920	V	0.702	44365.62408	V	0.720
44345.78145	V	0.690	44365.62616	V	0.709

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44365.62824	V	0.679	44345.66136	B	1.247
44366.65576	V	0.701	44345.66445	B	1.235
44366.65817	V	0.731	44345.66699	B	1.214
44366.66160	V	0.738	44345.66913	B	1.242
44366.66429	V	0.697	44345.67158	B	1.252
44366.66663	V	0.730	44345.67363	B	1.219
44366.66899	V	0.713	44345.67599	B	1.225
44366.67116	V	0.704	44345.67832	B	1.219
44366.67433	V	0.722	44345.68107	B	1.208
44366.67663	V	0.733	44345.68587	B	1.179
44371.66206	V	0.574	44345.68811	B	1.154
44371.66454	V	0.555	44345.69048	B	1.154
44371.66665	V	0.573	44345.69274	B	1.124
44371.66869	V	0.552	44345.69572	B	1.120
44371.67077	V	0.571	44345.69905	B	1.136
44371.67288	V	0.564	44345.70159	B	1.117
44371.67494	V	0.583	44345.70406	B	1.102
44371.67721	V	0.593	44345.70623	B	1.090
44371.67943	V	0.588	44345.71538	B	1.012
44371.68750	V	0.566	44345.71779	B	1.038
44391.59017	V	0.711	44345.72001	B	1.015
44391.59442	V	0.709	44345.72205	B	0.998
44391.59852	V	0.730	44345.72496	B	0.972
44391.60271	V	0.747	44345.72715	B	0.941
44393.58495	V	0.649	44345.72938	B	0.970
44393.58799	V	0.630	44345.73166	B	0.905
44393.59231	V	0.613	44345.73388	B	0.882
44393.59520	V	0.650	44345.74182	B	0.869
44393.60089	V	0.645	44345.74396	B	0.893
44393.60378	V	0.633	44345.74636	B	0.871
44393.60674	V	0.626	44345.74893	B	0.876
44393.60984	V	0.640	44345.75135	B	0.825
44393.61450	V	0.632	44345.75387	B	0.856
44393.61761	V	0.638	44345.75649	B	0.801
44393.62063	V	0.652	44345.75649	B	0.801
44395.58564	V	0.715	44345.75903	B	0.807
44395.58862	V	0.714	44345.76341	B	0.795
44395.59271	V	0.713	44345.76576	B	0.772
44395.59551	V	0.720	44345.77475	B	0.743
44395.59816	V	0.717	44345.77718	B	0.701
44395.60098	V	0.717	44345.77947	B	0.704
44395.60433	V	0.725	44345.78172	B	0.719
44345.62911	B	1.306	44345.78401	B	0.664
44345.63169	B	1.298	44345.78699	B	0.685
44345.63433	B	1.270	44345.78929	B	0.668
44345.63651	B	1.296	44345.79162	B	0.684
44345.63892	B	1.318	44345.79380	B	0.681
44345.64126	B	1.270	44345.79588	B	0.675
44345.64364	B	1.265	44345.79829	B	0.669
44345.64598	B	1.291	44345.80175	B	0.661
44345.64846	B	1.271	44345.80422	B	0.660
44345.65076	B	1.287	44345.80656	B	0.654
44345.65429	B	1.251	44345.80916	B	0.653
44345.65673	B	1.259	44345.81159	B	0.650
44345.65914	B	1.261	44345.81389	B	0.638

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44345.61630	B	0.641	44371.66694	B	0.561
44345.61933	B	0.681	44371.66897	B	0.587
44345.62155	B	0.646	44371.67103	B	0.559
44345.62368	B	0.653	44371.67316	B	0.578
44345.62616	B	0.670	44371.67522	B	0.594
44345.62843	B	0.635	44371.67754	B	0.565
44345.63126	B	0.680	44371.67972	B	0.552
44345.63350	B	0.704	44371.68778	B	0.560
44345.63577	B	0.668	44391.59057	B	0.724
44345.64361	B	0.644	44391.59506	B	0.734
44345.64588	B	0.651	44391.59891	B	0.737
44345.64817	B	0.660	44391.60309	B	0.767
44345.65046	B	0.654	44393.58535	B	0.656
44345.65320	B	0.660	44393.58636	B	0.646
44345.65542	B	0.645	44393.59270	B	0.645
44345.65773	B	0.621	44393.59567	B	0.656
44345.66038	B	0.627	44393.60126	B	0.646
44345.66258	B	0.634	44393.60417	B	0.643
44345.66456	B	0.661	44393.60715	B	0.639
44350.73508	B	0.651	44393.61024	B	0.635
44350.73764	B	0.620	44393.61489	B	0.684
44350.74140	B	0.605	44393.61801	B	0.648
44350.74539	B	0.635	44393.62102	B	0.650
44350.81069	B	0.665	44395.58624	B	0.714
44350.81278	B	0.640	44395.58903	B	0.704
44350.81503	B	0.680	44395.59310	B	0.713
44350.81729	B	0.649	44395.59589	B	0.754
44350.82349	B	0.670	44395.59855	B	0.719
44350.82577	B	0.683	44395.60139	B	0.709
44365.59937	B	0.720	44395.60473	B	0.699
44365.60145	B	0.735	44345.62937	U	1.509
44365.60353	B	0.699	44345.63195	U	1.480
44365.60562	B	0.713	44345.63459	U	1.488
44365.60770	B	0.706	44345.63680	U	1.490
44365.60978	B	0.754	44345.63917	U	1.571
44365.61187	B	0.743	44345.64152	U	1.619
44365.61395	B	0.711	44345.64393	U	1.562
44365.61603	B	0.700	44345.64628	U	1.584
44365.61812	B	0.758	44345.64872	U	1.547
44365.62020	B	0.689	44345.65104	U	1.608
44365.62228	B	0.727	44345.65457	U	1.635
44365.62439	B	0.714	44345.65701	U	1.512
44365.62654	B	0.719	44345.65944	U	1.533
44365.62853	B	0.719	44345.66164	U	1.507
44366.65603	B	0.732	44345.66473	U	1.512
44366.65845	B	0.738	44345.66728	U	1.427
44366.66196	B	0.705	44345.66942	U	1.437
44366.66456	B	0.732	44345.67186	U	1.430
44366.66713	B	0.738	44345.67391	U	1.367
44366.66926	B	0.720	44345.67634	U	1.488
44366.67142	B	0.711	44345.67861	U	1.452
44366.67464	B	0.723	44345.68137	U	1.495
44366.67691	B	0.728	44345.68615	U	1.283
44371.66231	B	0.577	44345.68839	U	1.329
44371.66479	B	0.575	44345.69076	U	1.329

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44345.69299	U	1.223	44345.85074	U	0.502
44345.69600	U	1.301	44345.85346	U	0.722
44345.69962	U	1.219	44345.85570	U	0.565
44345.70190	U	1.247	44345.85801	U	0.662
44345.70432	U	1.299	44345.86064	U	0.520
44345.70650	U	1.181	44345.86285	U	0.525
44345.71564	U	1.158	44345.86486	U	0.659
44345.71808	U	1.087	44350.73537	U	0.609
44345.72027	U	1.039	44350.73793	U	0.505
44345.72235	U	1.031	44350.74165	U	0.549
44345.72523	U	0.971	44350.81096	U	0.638
44345.72742	U	1.039	44350.81314	U	0.648
44345.72965	U	1.055	44350.81530	U	0.675
44345.73197	U	0.896	44350.81755	U	0.541
44345.73432	U	1.093	44350.82392	U	0.619
44345.74210	U	0.886	44350.82604	U	0.653
44345.74429	U	0.823	44366.65630	U	0.663
44345.74662	U	0.762	44366.65873	U	0.709
44345.74921	U	0.815	44366.66261	U	0.646
44345.75162	U	0.795	44366.66483	U	0.765
44345.75417	U	0.873	44366.66742	U	0.694
44345.75677	U	0.823	44366.66954	U	0.738
44345.75677	U	0.823	44366.67170	U	0.684
44345.75931	U	0.728	44366.67491	U	0.643
44345.76367	U	0.760	44366.67717	U	0.589
44345.76602	U	0.770	44371.66256	U	0.366
44345.77502	U	0.706	44371.66504	U	0.355
44345.77747	U	0.743	44371.66720	U	0.376
44345.77974	U	0.671	44371.66923	U	0.437
44345.78199	U	0.624	44371.67131	U	0.310
44345.78429	U	0.630	44371.67342	U	0.375
44345.78727	U	0.672	44371.67550	U	0.308
44345.78956	U	0.573	44371.67781	U	0.327
44345.79188	U	0.636	44371.68000	U	0.410
44345.79405	U	0.559	44371.68807	U	0.411
44345.79616	U	0.639	44391.59096	U	0.613
44345.79856	U	0.670	44391.59543	U	0.705
44345.80203	U	0.657	44391.59931	U	0.680
44345.80453	U	0.537	44391.60346	U	0.702
44345.80688	U	0.544	44393.58572	U	0.620
44345.80944	U	0.687	44393.58879	U	0.606
44345.81187	U	0.562	44393.59310	U	0.537
44345.81417	U	0.537	44393.59605	U	0.634
44345.81658	U	0.685	44393.60166	U	0.691
44345.81963	U	0.555	44393.60457	U	0.645
44345.82184	U	0.616	44393.60753	U	0.531
44345.82401	U	0.647	44393.61061	U	0.573
44345.82644	U	0.642	44393.61528	U	0.601
44345.82871	U	0.608	44393.61838	U	0.572
44345.83155	U	0.758	44393.62143	U	0.587
44345.83382	U	0.664	44395.58663	U	0.638
44345.83604	U	0.665	44395.58941	U	0.642
44345.84392	U	0.670	44395.59351	U	0.682
44345.84616	U	0.657	44395.59627	U	0.792
44345.84846	U	0.641	44395.59893	U	0.702

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44395.60177	U	0.694	44395.60512	U	0.747

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43889.92224	V	-1.264	43905.86471	B	-1.292
43889.92814	V	-1.263	43905.86890	B	-1.286
43889.93381	V	-1.239	43905.87463	B	-1.265
43889.93937	V	-1.262	43905.87955	B	-1.283
43889.94527	V	-1.263	43905.89017	B	-1.296
43889.95089	V	-1.245	44011.69918	B	-1.286
43889.95552	V	-1.215	44011.70404	B	-1.293
43902.85327	V	-1.259	44011.70930	B	-1.296
43902.85796	V	-1.269	44011.71322	B	-1.284
43902.86199	V	-1.259	44011.71719	B	-1.292
43905.86425	V	-1.299	44011.72087	B	-1.290
43905.86841	V	-1.296	43889.92317	U	-1.246
43905.87415	V	-1.298	43889.92901	U	-1.214
43905.87901	V	-1.306	43889.93474	U	-1.227
43905.88936	V	-1.296	43889.94029	U	-1.237
44011.69844	V	-1.301	43889.94614	U	-1.256
44011.70346	V	-1.290	43889.95181	U	-1.213
44011.70882	V	-1.298	43889.95661	U	-1.166
44011.71267	V	-1.293	43902.85411	U	-1.239
44011.71655	V	-1.282	43902.85884	U	-1.257
44011.72041	V	-1.294	43902.86290	U	-1.163
43889.92270	B	-1.251	43905.86580	U	-1.283
43889.92860	B	-1.243	43905.86933	U	-1.286
43889.93428	B	-1.221	43905.87520	U	-1.260
43889.93983	B	-1.248	43905.88002	U	-1.296
43889.94568	B	-1.259	43905.89066	U	-1.286
43889.95135	B	-1.221	44011.69963	U	-1.264
43889.95598	B	-1.176	44011.70453	U	-1.263
43902.85371	B	-1.265	44011.70977	U	-1.266
43902.85842	B	-1.277	44011.71372	U	-1.272
43902.86245	B	-1.201	44011.71763	U	-1.268
			44011.72133	U	-1.273

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44339.68166	V	-1.089	44339.83444	V	-0.709
44339.68443	V	-1.089	44339.83721	V	-0.687
44339.68721	V	-1.078	44339.84000	V	-0.666
44339.69000	V	-1.042	44339.84278	V	-0.663
44339.69277	V	-1.054	44339.84832	V	-0.673
44339.69563	V	-1.041	44339.85110	V	-0.675
44339.69832	V	-1.053	44339.85388	V	-0.674
44339.70111	V	-1.039	44339.85666	V	-0.690
44339.70388	V	-1.014	44339.85945	V	-0.660
44339.70666	V	-1.014	44339.86225	V	-0.652
44339.70944	V	-0.994	44339.86499	V	-0.678
44339.71221	V	-1.009	44339.86777	V	-0.675
44339.71499	V	-0.992	44339.87055	V	-0.696
44339.71777	V	-0.971	44339.87334	V	-0.688
44339.72055	V	-0.984	44339.87610	V	-0.691
44339.72334	V	-0.963	44339.87888	V	-0.663
44339.72610	V	-0.951	44339.88167	V	-0.691
44339.72888	V	-0.964	44339.88444	V	-0.676
44339.73166	V	-0.923	44339.88721	V	-0.709
44339.73444	V	-0.914	44339.89000	V	-0.688
44339.73721	V	-0.897	44339.89281	V	-0.687
44339.73999	V	-0.897	44339.89560	V	-0.716
44339.74277	V	-0.903	44339.89832	V	-0.708
44339.74555	V	-0.892	44339.90110	V	-0.716
44339.74832	V	-0.877	44339.90427	V	-0.723
44339.75110	V	-0.875	44340.72448	V	-1.294
44339.75388	V	-0.838	44340.72746	V	-1.291
44339.75666	V	-0.847	44340.73019	V	-1.301
44339.75944	V	-0.843	44340.73364	V	-1.294
44339.76221	V	-0.840	44340.73664	V	-1.278
44339.76499	V	-0.819	44340.74030	V	-1.264
44339.76777	V	-0.824	44340.74429	V	-1.280
44339.77055	V	-0.823	44340.74860	V	-1.287
44339.77332	V	-0.810	44340.75198	V	-1.275
44339.77610	V	-0.816	44340.75503	V	-1.283
44339.77888	V	-0.784	44340.75829	V	-1.292
44339.78166	V	-0.784	44340.76184	V	-1.284
44339.78444	V	-0.772	44340.76521	V	-1.304
44339.78722	V	-0.742	44340.77058	V	-1.279
44339.79000	V	-0.721	44340.77380	V	-1.282
44339.79277	V	-0.723	44340.77717	V	-1.293
44339.79555	V	-0.759	44340.78092	V	-1.278
44339.79832	V	-0.758	44340.78652	V	-1.269
44339.80129	V	-0.749	44340.79010	V	-1.282
44339.80388	V	-0.721	44340.79394	V	-1.289
44339.80666	V	-0.727	44340.81344	V	-1.281
44339.80944	V	-0.700	44340.81669	V	-1.279
44339.81221	V	-0.703	44340.81961	V	-1.285
44339.81500	V	-0.696	44340.82363	V	-1.297
44339.81777	V	-0.682	44340.82659	V	-1.287
44339.82055	V	-0.679	44340.82929	V	-1.284
44339.82332	V	-0.689	44340.83214	V	-1.282
44339.82610	V	-0.721	44340.83533	V	-1.293
44339.82888	V	-0.684	44340.83853	V	-1.294
44339.83166	V	-0.679	44340.84161	V	-1.277

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44340.84477	V	-1.297	44339.69861	B	-1.030
44345.87264	V	-1.289	44339.70139	B	-1.018
44345.87661	V	-1.313	44339.70417	B	-1.001
44345.87927	V	-1.309	44339.70695	B	-0.993
44345.88178	V	-1.288	44339.70972	B	-0.983
44345.88437	V	-1.307	44339.71250	B	-0.983
44345.89189	V	-1.325	44339.71528	B	-0.950
44345.89480	V	-1.328	44339.71806	B	-0.940
44345.89751	V	-1.309	44339.72084	B	-0.934
44345.90004	V	-1.321	44339.72362	B	-0.916
44345.90264	V	-1.296	44339.72639	B	-0.903
44350.83498	V	-1.298	44339.72917	B	-0.903
44350.83757	V	-1.282	44339.73195	B	-0.889
44350.84046	V	-1.274	44339.73472	B	-0.877
44350.84308	V	-1.300	44339.73750	B	-0.863
44366.72289	V	-1.303	44339.74028	B	-0.859
44366.72559	V	-1.267	44339.74306	B	-0.880
44366.72964	V	-1.285	44339.74584	B	-0.838
44366.73247	V	-1.284	44339.74861	B	-0.825
44366.73635	V	-1.281	44339.75139	B	-0.827
44366.73929	V	-1.286	44339.75417	B	-0.813
44370.83256	V	-1.284	44339.75695	B	-0.798
44370.83514	V	-1.269	44339.75972	B	-0.799
44370.83780	V	-1.251	44339.76250	B	-0.773
44371.83558	V	-1.290	44339.76528	B	-0.750
44371.83827	V	-1.290	44339.76806	B	-0.767
44371.84088	V	-1.288	44339.77084	B	-0.747
44371.84358	V	-1.295	44339.77361	B	-0.760
44371.84615	V	-1.308	44339.77639	B	-0.752
44371.84868	V	-1.299	44339.77917	B	-0.736
44371.85101	V	-1.290	44339.78195	B	-0.738
44371.85456	V	-1.277	44339.78474	B	-0.695
44393.64258	V	-1.263	44339.78750	B	-0.664
44393.64643	V	-1.242	44339.79029	B	-0.675
44393.65188	V	-1.261	44339.79306	B	-0.676
44393.65650	V	-1.265	44339.79585	B	-0.692
44393.66016	V	-1.264	44339.79861	B	-0.669
44394.80377	V	-1.301	44339.80153	B	-0.653
44394.80642	V	-1.297	44339.80418	B	-0.642
44394.80920	V	-1.297	44339.80695	B	-0.665
44394.81335	V	-1.288	44339.80972	B	-0.653
44394.81608	V	-1.302	44339.81250	B	-0.637
44394.81901	V	-1.319	44339.81528	B	-0.640
44395.70972	V	-1.284	44339.81806	B	-0.623
44395.71381	V	-1.292	44339.82084	B	-0.612
44395.71973	V	-1.259	44339.82361	B	-0.611
44395.72357	V	-1.263	44339.82639	B	-0.626
44395.73033	V	-1.287	44339.82916	B	-0.615
44395.74039	V	-1.294	44339.83195	B	-0.603
44339.68195	B	-1.081	44339.83471	B	-0.637
44339.68472	B	-1.070	44339.83750	B	-0.627
44339.68750	B	-1.054	44339.84030	B	-0.599
44339.69028	B	-1.054	44339.84306	B	-0.584
44339.69306	B	-1.035	44339.84861	B	-0.578
44339.69593	B	-1.053	44339.85139	B	-0.605

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44339.85417	B	-0.610	44345.89216	B	-1.322
44339.85695	B	-0.613	44345.89508	B	-1.297
44339.85972	B	-0.594	44345.89777	B	-1.276
44339.86251	B	-0.600	44345.90049	B	-1.273
44339.86528	B	-0.617	44345.90292	B	-1.281
44339.86806	B	-0.607	44350.83529	B	-1.268
44339.87084	B	-0.616	44350.83785	B	-1.278
44339.87361	B	-0.608	44350.84074	B	-1.279
44339.87639	B	-0.620	44350.84335	B	-1.269
44339.87917	B	-0.618	44366.72319	B	-1.262
44339.88196	B	-0.639	44366.72584	B	-1.279
44339.88472	B	-0.634	44366.72990	B	-1.285
44339.88750	B	-0.653	44366.73274	B	-1.276
44339.89029	B	-0.649	44366.73664	B	-1.267
44339.89306	B	-0.651	44366.73956	B	-1.270
44339.89589	B	-0.684	44370.83283	B	-1.281
44339.89861	B	-0.672	44370.83546	B	-1.282
44339.90139	B	-0.658	44370.83809	B	-1.261
44339.90452	B	-0.678	44371.83585	B	-1.295
44340.72484	B	-1.291	44371.83855	B	-1.290
44340.72772	B	-1.286	44371.84114	B	-1.276
44340.73056	B	-1.272	44371.84385	B	-1.286
44340.73397	B	-1.277	44371.84642	B	-1.285
44340.73699	B	-1.277	44371.84894	B	-1.276
44340.74074	B	-1.270	44371.85128	B	-1.258
44340.74470	B	-1.267	44371.85481	B	-1.238
44340.74890	B	-1.262	44371.85544	B	-1.219
44340.75228	B	-1.248	44371.85905	B	-1.279
44340.75540	B	-1.267	44393.64296	B	-1.279
44340.75857	B	-1.278	44393.64682	B	-1.241
44340.76217	B	-1.283	44393.65227	B	-1.262
44340.76564	B	-1.282	44393.65688	B	-1.264
44340.77093	B	-1.283	44393.66054	B	-1.256
44340.77410	B	-1.266	44394.80403	B	-1.277
44340.77747	B	-1.281	44394.80674	B	-1.282
44340.78129	B	-1.269	44394.80947	B	-1.280
44340.78679	B	-1.273	44394.81363	B	-1.284
44340.79058	B	-1.281	44394.81637	B	-1.291
44340.79445	B	-1.272	44394.81932	B	-1.284
44340.81373	B	-1.278	44395.71016	B	-1.304
44340.81697	B	-1.274	44395.71421	B	-1.297
44340.81993	B	-1.285	44395.72049	B	-1.275
44340.82399	B	-1.280	44395.72395	B	-1.249
44340.82688	B	-1.265	44395.73071	B	-1.269
44340.82956	B	-1.273	44395.74078	B	-1.284
44340.83245	B	-1.277	44339.68224	U	-1.002
44340.83564	B	-1.289	44339.68501	U	-1.048
44340.83886	B	-1.283	44339.68779	U	-1.048
44340.84201	B	-1.288	44339.69062	U	-0.973
44340.84505	B	-1.277	44339.69335	U	-1.035
44345.87291	B	-1.260	44339.69619	U	-1.015
44345.87689	B	-1.282	44339.69890	U	-1.033
44345.87953	B	-1.280	44339.70168	U	-0.973
44345.88204	B	-1.286	44339.70446	U	-0.981
44345.88465	B	-1.304	44339.70724	U	-0.960

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44339.71001	U	-0.956	44339.86278	U	-0.528
44339.71279	U	-0.963	44339.86557	U	-0.563
44339.71557	U	-0.925	44339.86835	U	-0.572
44339.71835	U	-0.899	44339.87113	U	-0.569
44339.72112	U	-0.876	44339.87390	U	-0.529
44339.72391	U	-0.908	44339.87946	U	-0.542
44339.72668	U	-0.857	44339.88224	U	-0.593
44339.72946	U	-0.840	44339.88501	U	-0.601
44339.73224	U	-0.789	44339.88778	U	-0.577
44339.73501	U	-0.843	44339.89057	U	-0.615
44339.73779	U	-0.839	44339.89335	U	-0.591
44339.74057	U	-0.815	44339.89616	U	-0.584
44339.74335	U	-0.830	44339.89890	U	-0.633
44339.74612	U	-0.786	44339.90165	U	-0.627
44339.74890	U	-0.793	44339.90476	U	-0.695
44339.75167	U	-0.818	44340.72519	U	-1.276
44339.75446	U	-0.732	44340.72801	U	-1.296
44339.75724	U	-0.770	44340.73088	U	-1.261
44339.76001	U	-0.761	44340.73429	U	-1.230
44339.76279	U	-0.723	44340.73743	U	-1.269
44339.76557	U	-0.680	44340.74166	U	-1.285
44339.76835	U	-0.746	44340.74512	U	-1.293
44339.77112	U	-0.757	44340.74923	U	-1.263
44339.77390	U	-0.770	44340.75258	U	-1.223
44339.77668	U	-0.730	44340.75570	U	-1.242
44339.77946	U	-0.652	44340.75885	U	-1.243
44339.78224	U	-0.657	44340.76252	U	-1.297
44339.78501	U	-0.676	44340.76591	U	-1.295
44339.78779	U	-0.707	44340.77129	U	-1.293
44339.79058	U	-0.658	44340.77445	U	-1.278
44339.79335	U	-0.642	44340.77792	U	-1.292
44339.79612	U	-0.621	44340.78184	U	-1.245
44339.79890	U	-0.608	44340.78710	U	-1.257
44339.80177	U	-0.561	44340.79102	U	-1.308
44339.80450	U	-0.483	44340.79503	U	-1.293
44339.80724	U	-0.538	44340.81403	U	-1.264
44339.81005	U	-0.569	44340.81727	U	-1.275
44339.81279	U	-0.594	44340.82024	U	-1.241
44339.81558	U	-0.598	44340.82430	U	-1.304
44339.81835	U	-0.545	44340.82716	U	-1.318
44339.82112	U	-0.565	44340.82988	U	-1.252
44339.82391	U	-0.567	44340.83276	U	-1.221
44339.82667	U	-0.614	44340.83592	U	-1.240
44339.82948	U	-0.556	44340.83917	U	-1.288
44339.83224	U	-0.565	44340.84232	U	-1.299
44339.83501	U	-0.625	44340.84533	U	-1.302
44339.83779	U	-0.615	44345.87319	U	-1.237
44339.84057	U	-0.545	44345.87715	U	-1.222
44339.84335	U	-0.548	44345.87980	U	-1.256
44339.84624	U	-0.551	44345.88231	U	-1.272
44339.84890	U	-0.534	44345.88490	U	-1.269
44339.85168	U	-0.520	44345.89243	U	-1.351
44339.85446	U	-0.543	44345.89536	U	-1.277
44339.85724	U	-0.555	44345.89804	U	-1.301
44339.86001	U	-0.514	44345.90077	U	-1.266

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44345.90318	U	-1.269	44371.85154	U	-1.264
44350.83556	U	-1.314	44371.85571	U	-1.220
44350.83813	U	-1.307	44371.85931	U	-1.219
44350.84101	U	-1.271	44393.64338	U	-1.259
44350.84362	U	-1.306	44393.64719	U	-1.224
44366.72345	U	-1.341	44393.65267	U	-1.233
44366.72611	U	-1.342	44393.65725	U	-1.272
44366.73019	U	-1.272	44393.66091	U	-1.243
44366.73302	U	-1.311	44394.80430	U	-1.264
44366.73691	U	-1.253	44394.80704	U	-1.256
44366.73982	U	-1.312	44394.80976	U	-1.289
44370.83309	U	-1.336	44394.81392	U	-1.264
44370.83572	U	-1.305	44394.81664	U	-1.269
44370.83837	U	-1.268	44394.81961	U	-1.285
44371.83612	U	-1.305	44395.71055	U	-1.242
44371.83883	U	-1.278	44395.71460	U	-1.271
44371.84142	U	-1.253	44395.72087	U	-1.265
44371.84411	U	-1.291	44395.72435	U	-1.216
44371.84667	U	-1.265	44395.73109	U	-1.269
44371.84922	U	-1.273	44395.74116	U	-1.274

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43848.65660	V	0.322	43880.66760	V	-0.706
43848.70245	V	0.302	43880.66861	V	-0.698
43848.70847	V	0.283	43880.68150	V	-0.756
43848.71425	V	0.304	43882.63140	V	-0.731
43848.71859	V	0.328	43882.63771	V	-0.784
43848.72427	V	0.310	43882.64460	V	-0.809
43848.73150	V	0.307	43882.66138	V	-0.801
43848.76761	V	0.307	43883.57007	V	-0.787
43848.77299	V	0.295	43883.57736	V	-0.795
43848.77907	V	0.316	43883.58332	V	-0.785
43848.78503	V	0.307	43883.59617	V	-0.794
43848.81634	V	0.314	43888.68272	V	-0.258
43848.82183	V	0.296	43888.69839	V	-0.219
43848.82791	V	0.288	43888.70289	V	-0.196
43849.59526	V	0.093	43888.71115	V	-0.159
43849.60551	V	0.101	43889.62740	V	-0.739
43849.61014	V	0.070	43889.63290	V	-0.741
43849.61627	V	0.062	43889.63863	V	-0.734
43849.62321	V	0.045	43889.65240	V	-0.727
43849.62952	V	0.036	43889.65819	V	-0.732
43849.65383	V	-0.014	43898.59137	V	-0.745
43849.65961	V	-0.115	43898.59743	V	-0.734
43849.66725	V	-0.054	43898.60137	V	-0.744
43849.67385	V	-0.057	43898.61056	V	-0.733
43849.68027	V	-0.115	43902.57978	V	-0.732
43849.68485	V	-0.098	43902.58334	V	-0.735
43849.69422	V	-0.130	43902.58875	V	-0.728
43849.71008	V	-0.168	43905.65570	V	-0.727
43849.71615	V	-0.188	43905.65995	V	-0.743
43849.72281	V	-0.197	43907.58098	V	-0.738
43849.73010	V	-0.255	43907.58898	V	-0.725
43849.74127	V	-0.244	43907.59449	V	-0.728
43849.74821	V	-0.261	43907.59972	V	-0.723
43849.76887	V	-0.319	43907.60782	V	-0.722
43849.77611	V	-0.327	43913.54369	V	-0.712
43849.78149	V	-0.326	43913.54840	V	-0.730
43849.78566	V	-0.347	43913.55704	V	-0.741
43855.69997	V	-0.792	43913.56066	V	-0.743
43855.70501	V	-0.772	43913.56452	V	-0.707
43855.71218	V	-0.789	43914.60719	V	-0.642
43855.72758	V	-0.784	43914.61495	V	-0.660
43856.64168	V	-0.790	43916.53892	V	-0.728
43856.64717	V	-0.799	43916.54440	V	-0.752
43856.65290	V	-0.795	43916.54838	V	-0.745
43856.65713	V	-0.791	43916.55502	V	-0.739
43857.70780	V	-0.776	43916.56065	V	-0.735
43860.74285	V	-0.744	43917.59176	V	-0.749
43860.78081	V	-0.771	43917.60330	V	-0.725
43860.78700	V	-0.752	43917.61541	V	-0.744
43879.58660	V	-0.688	43918.53743	V	-0.731
43879.59135	V	-0.728	43918.54473	V	-0.783
43879.59951	V	-0.706	43924.55316	V	-0.759
43879.60657	V	-0.716	43924.56220	V	-0.770
43879.61137	V	-0.751	43924.57987	V	-0.792
43880.63801	V	-0.715	43924.58820	V	-0.768

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43924.55907	V	-0.764	43849.61691	B	0.376
43924.60296	V	-0.771	43849.62374	B	0.349
43924.61024	V	-0.763	43849.63010	B	0.352
43924.61625	V	-0.750	43849.65441	B	0.399
43932.57463	V	-0.731	43849.66019	B	0.212
43932.58063	V	-0.709	43849.66806	B	0.200
43932.58568	V	-0.749	43849.67466	B	0.170
43932.60840	V	-0.750	43849.68091	B	0.017
43932.61285	V	-0.748	43849.68548	B	0.039
43940.57207	V	-0.720	43849.69468	B	0.139
43940.57613	V	-0.737	43849.71066	B	0.034
43940.58225	V	-0.739	43849.71667	B	0.014
43941.56128	V	-0.732	43849.72350	B	0.019
43941.56488	V	-0.742	43849.73068	B	-0.037
43941.56879	V	-0.720	43849.74196	B	-0.067
43942.57022	V	-0.731	43849.74891	B	-0.060
43942.57389	V	-0.752	43849.76945	B	-0.150
43946.55923	V	-0.728	43849.77680	B	-0.166
43946.56525	V	-0.730	43849.78201	B	-0.188
43946.56906	V	-0.729	43849.78623	B	-0.209
43947.54575	V	-0.803	43855.70044	B	-0.770
43947.55160	V	-0.738	43855.70564	B	-0.776
43947.55229	V	-0.739	43855.71282	B	-0.757
43947.55771	V	-0.674	43855.72815	B	-0.770
43948.55123	V	-0.734	43856.64214	B	-0.747
43948.55719	V	-0.743	43856.64764	B	-0.759
43948.56473	V	-0.726	43856.65337	B	-0.746
43948.56863	V	-0.734	43856.65869	B	-0.747
43952.54631	V	-0.755	43857.70826	B	-0.739
43952.55102	V	-0.749	43860.74360	B	-0.702
43952.55725	V	-0.750	43860.78168	B	-0.744
43952.56209	V	-0.734	43860.78758	B	-0.742
43952.56761	V	-0.765	43879.58712	B	-0.629
43953.55679	V	-0.698	43879.59187	B	-0.695
43953.56452	V	-0.675	43879.60003	B	-0.677
43953.57186	V	-0.677	43879.60709	B	-0.680
43954.54621	V	-0.757	43879.61212	B	-0.718
43954.55144	V	-0.741	43880.63827	B	-0.687
43848.69695	B	0.767	43880.66793	B	-0.669
43848.70285	B	0.740	43880.68180	B	-0.730
43848.70899	B	0.728	43882.63187	B	-0.744
43848.71466	B	0.745	43882.63818	B	-0.811
43848.71900	B	0.788	43882.64518	B	-0.775
43848.72467	B	0.774	43882.66179	B	-0.641
43848.73185	B	0.771	43883.57053	B	-0.755
43848.76813	B	0.747	43883.57846	B	-0.768
43848.77363	B	0.759	43883.58372	B	-0.753
43848.77959	B	0.786	43883.59663	B	-0.739
43848.78567	B	0.749	43888.68302	B	-0.050
43848.81692	B	0.736	43888.69870	B	0.006
43848.82270	B	0.750	43888.70318	B	0.058
43848.82855	B	0.725	43888.71143	B	0.046
43849.59642	B	0.443	43889.62781	B	-0.699
43849.60609	B	0.430	43889.63331	B	-0.694
43849.61066	B	0.396	43889.63903	B	-0.699

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43889.65286	B	-0.710	43942.57428	B	-0.737
43889.65865	B	-0.710	43946.55986	B	-0.714
43898.59184	B	-0.713	43946.56572	B	-0.708
43898.59793	B	-0.703	43946.56974	B	-0.702
43898.60184	B	-0.711	43947.54633	B	-0.744
43898.61104	B	-0.703	43947.55275	B	-0.728
43902.58025	B	-0.710	43947.55324	B	-0.754
43902.58381	B	-0.715	43947.55827	B	-0.641
43902.58919	B	-0.711	43948.55183	B	-0.704
43905.65618	B	-0.707	43948.55780	B	-0.693
43905.66044	B	-0.718	43948.56141	B	-0.713
43907.58137	B	-0.701	43948.56543	B	-0.717
43907.58936	B	-0.702	43948.57125	B	-0.724
43907.59488	B	-0.696	43952.54675	B	-0.705
43907.60007	B	-0.701	43952.55177	B	-0.737
43907.60817	B	-0.694	43952.55768	B	-0.761
43913.54416	B	-0.704	43952.56257	B	-0.710
43913.54891	B	-0.688	43952.56824	B	-0.741
43913.54951	B	-0.694	43953.55740	B	-0.684
43913.55754	B	-0.694	43953.56529	B	-0.679
43913.56116	B	-0.709	43953.57247	B	-0.682
43913.56507	B	-0.645	43954.54671	B	-0.717
43914.60756	B	-0.651	43954.55199	B	-0.727
43914.61546	B	-0.662	43848.69730	U	1.388
43916.53933	B	-0.691	43848.70326	U	1.337
43916.54491	B	-0.715	43848.70934	U	1.282
43916.54885	B	-0.718	43848.71518	U	1.316
43916.55562	B	-0.710	43848.71940	U	1.352
43916.56131	B	-0.698	43848.72542	U	1.339
43917.59226	B	-0.718	43848.73231	U	1.359
43917.60370	B	-0.687	43848.76859	U	1.340
43917.61591	B	-0.711	43848.77432	U	1.327
43918.53795	B	-0.676	43848.78011	U	1.352
43918.54519	B	-0.776	43848.78630	U	1.346
43924.55360	B	-0.732	43848.81773	U	1.334
43924.56260	B	-0.742	43848.82345	U	1.337
43924.58024	B	-0.732	43848.82509	U	1.364
43924.58857	B	-0.734	43849.59706	U	0.926
43924.59545	B	-0.728	43849.60661	U	0.828
43924.60335	B	-0.723	43849.61124	U	0.849
43924.61061	B	-0.724	43849.61766	U	0.906
43924.61664	B	-0.714	43849.62449	U	0.824
43932.57525	B	-0.716	43849.63085	U	0.771
43932.58127	B	-0.662	43849.65499	U	0.842
43932.58644	B	-0.755	43849.66095	U	0.618
43932.60923	B	-0.705	43849.66864	U	0.628
43932.61334	B	-0.724	43849.67518	U	0.562
43940.57253	B	-0.713	43849.68149	U	0.522
43940.57661	B	-0.689	43849.68670	U	0.576
43940.57748	B	-0.674	43849.69590	U	0.531
43940.58273	B	-0.718	43849.71118	U	0.421
43941.56186	B	-0.714	43849.71725	U	0.457
43941.56535	B	-0.709	43849.72420	U	0.442
43941.56929	B	-0.710	43849.73201	U	0.322
43942.57064	B	-0.715	43849.74283	U	0.315

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43849.74954	U	0.323	43907.60859	U	-0.406
43849.77003	U	0.234	43913.53723	U	-0.413
43849.77744	U	0.206	43913.54469	U	-0.411
43849.78253	U	0.176	43913.55003	U	-0.415
43849.78675	U	0.132	43913.55807	U	-0.403
43855.70148	U	-0.375	43913.56166	U	-0.422
43855.70616	U	-0.408	43913.56556	U	-0.241
43855.70657	U	-0.386	43914.60793	U	-0.393
43855.72885	U	-0.409	43914.61588	U	-0.415
43856.64266	U	-0.421	43916.53985	U	-0.388
43856.64810	U	-0.412	43916.54538	U	-0.428
43856.65383	U	-0.393	43916.54926	U	-0.434
43856.65939	U	-0.396	43916.55612	U	-0.441
43857.70873	U	-0.404	43916.56188	U	-0.415
43860.74621	U	-0.372	43917.59272	U	-0.430
43860.78238	U	-0.425	43917.60415	U	-0.395
43860.78822	U	-0.437	43917.61628	U	-0.423
43879.58764	U	-0.315	43918.53843	U	-0.374
43879.59256	U	-0.409	43918.54567	U	-0.420
43879.60049	U	-0.382	43924.55396	U	-0.449
43879.60761	U	-0.396	43924.56300	U	-0.451
43879.61264	U	-0.446	43924.58061	U	-0.449
43880.63853	U	-0.362	43924.58893	U	-0.447
43880.66828	U	-0.359	43924.59581	U	-0.404
43880.68209	U	-0.448	43924.60372	U	-0.408
43882.63233	U	-0.383	43924.61096	U	-0.417
43882.63864	U	-0.485	43924.61707	U	-0.404
43882.64552	U	-0.485	43932.57570	U	-0.435
43882.66242	U	-0.374	43932.58197	U	-0.382
43883.57094	U	-0.401	43932.58721	U	-0.471
43883.57892	U	-0.405	43932.60970	U	-0.430
43883.58425	U	-0.401	43932.61386	U	-0.433
43883.59703	U	-0.326	43940.57329	U	-0.540
43888.68331	U	0.330	43940.57813	U	-0.481
43888.69901	U	0.362	43940.58319	U	-0.311
43888.70350	U	0.432	43941.56238	U	-0.444
43888.71172	U	0.380	43941.56606	U	-0.481
43889.62827	U	-0.486	43941.56981	U	-0.431
43889.63377	U	-0.468	43942.57104	U	-0.446
43889.63944	U	-0.398	43942.57470	U	-0.458
43889.65341	U	-0.423	43946.56042	U	-0.451
43889.65911	U	-0.409	43946.56628	U	-0.439
43898.59261	U	-0.424	43946.57039	U	-0.487
43898.59836	U	-0.424	43947.54693	U	-0.497
43898.60231	U	-0.421	43947.55377	U	-0.494
43898.61151	U	-0.407	43947.55884	U	-0.372
43902.58068	U	-0.413	43948.55236	U	-0.427
43902.58435	U	-0.422	43948.55833	U	-0.447
43902.58966	U	-0.424	43948.56191	U	-0.453
43905.65671	U	-0.419	43948.56563	U	-0.432
43905.66091	U	-0.439	43948.57169	U	-0.521
43907.58180	U	-0.432	43952.54719	U	-0.373
43907.58973	U	-0.401	43952.55221	U	-0.461
43907.59524	U	-0.419	43952.55813	U	-0.579
43907.60045	U	-0.417	43952.56338	U	-0.506

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43952.56867	U	-0.479	43953.57311	U	-0.436
43953.55783	U	-0.473	43954.54716	U	-0.439
43953.56577	U	-0.404	43954.55258	U	-0.431

RZ ERI 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44148.89824	V	-0.709	44240.73234	V	-0.742
44148.90211	V	-0.705	44240.73711	V	-0.761
44148.90585	V	-0.736	44240.74213	V	-0.747
44148.91120	V	-0.726	44240.74717	V	-0.757
44148.91486	V	-0.722	44241.50618	V	0.340
44153.86725	V	-0.707	44241.50896	V	0.344
44153.87309	V	-0.714	44241.51376	V	0.359
44153.87691	V	-0.734	44241.51644	V	0.356
44153.88098	V	-0.723	44241.51960	V	0.346
44162.72713	V	0.114	44241.52558	V	0.333
44162.72991	V	0.097	44241.52812	V	0.325
44162.73269	V	0.116	44241.53134	V	0.338
44162.73547	V	0.130	44241.53454	V	0.357
44162.73825	V	0.149	44241.53636	V	0.352
44162.74104	V	0.155	44241.53881	V	0.356
44162.74379	V	0.134	44241.54094	V	0.366
44162.74658	V	0.186	44241.54455	V	0.347
44162.75214	V	0.169	44241.54717	V	0.350
44162.75490	V	0.131	44241.54962	V	0.344
44162.75769	V	0.161	44241.55303	V	0.333
44162.76047	V	0.117	44241.55539	V	0.323
44185.71067	V	-0.697	44241.55823	V	0.358
44185.71531	V	-0.697	44241.56071	V	0.337
44185.71964	V	-0.723	44241.56336	V	0.361
44185.72300	V	-0.704	44241.56726	V	0.342
44185.72840	V	-0.696	44241.57050	V	0.339
44193.75456	V	-0.678	44241.57332	V	0.347
44193.75748	V	-0.690	44241.57571	V	0.349
44193.76439	V	-0.700	44241.57922	V	0.325
44193.76813	V	-0.704	44241.58159	V	0.334
44193.77162	V	-0.697	44241.58429	V	0.363
44198.79140	V	-0.677	44241.58554	V	0.340
44198.79452	V	-0.697	44241.58812	V	0.349
44198.79736	V	-0.689	44241.59093	V	0.353
44198.80026	V	-0.687	44241.59347	V	0.340
44204.71252	V	-0.723	44241.59695	V	0.327
44204.71558	V	-0.726	44241.59985	V	0.352
44204.71756	V	-0.718	44241.60286	V	0.362
44204.72033	V	-0.736	44241.60521	V	0.355
44240.63823	V	-0.730	44241.60748	V	0.338
44240.64234	V	-0.724	44241.61008	V	0.350
44240.64535	V	-0.725	44241.61423	V	0.358
44240.65111	V	-0.724	44241.61743	V	0.348
44240.65494	V	-0.726	44241.62114	V	0.353
44240.65780	V	-0.735	44241.62396	V	0.349
44240.66073	V	-0.753	44241.62693	V	0.351
44240.67757	V	-0.753	44241.62972	V	0.357
44240.68057	V	-0.745	44241.63258	V	0.351
44240.69477	V	-0.743	44241.63640	V	0.360
44240.70368	V	-0.737	44241.63897	V	0.333
44240.70788	V	-0.741	44241.64281	V	0.319
44240.71410	V	-0.756	44241.64553	V	0.339
44240.71803	V	-0.725	44241.64829	V	0.335
44240.72254	V	-0.784	44241.65589	V	0.360
44240.72810	V	-0.744	44241.65730	V	0.362

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44241.65998	V	0.353	44242.53576	V	-0.146
44241.66259	V	0.351	44242.53808	V	-0.141
44241.66542	V	0.351	44242.54105	V	-0.152
44241.66782	V	0.349	44242.54310	V	-0.149
44241.67040	V	0.343	44242.54599	V	-0.133
44241.67392	V	0.346	44242.54826	V	-0.150
44241.67614	V	0.335	44242.55118	V	-0.170
44241.67857	V	0.345	44242.55354	V	-0.171
44241.68104	V	0.362	44242.55719	V	-0.183
44241.68352	V	0.350	44242.56032	V	-0.196
44241.68580	V	0.337	44242.56243	V	-0.207
44241.68858	V	0.351	44242.57516	V	-0.230
44241.69306	V	0.348	44242.57849	V	-0.220
44241.69562	V	0.352	44242.58126	V	-0.235
44241.69799	V	0.362	44242.58404	V	-0.246
44241.70128	V	0.369	44242.59022	V	-0.258
44241.71925	V	0.347	44242.59887	V	-0.266
44241.72254	V	0.338	44242.60321	V	-0.279
44241.72587	V	0.332	44242.60626	V	-0.286
44241.73081	V	0.346	44242.60857	V	-0.288
44241.73321	V	0.344	44242.61149	V	-0.306
44241.73791	V	0.335	44242.61402	V	-0.296
44241.74132	V	0.347	44242.61625	V	-0.302
44241.74533	V	0.340	44242.61915	V	-0.318
44241.74880	V	0.355	44242.62137	V	-0.334
44241.75143	V	0.360	44242.62371	V	-0.348
44241.75624	V	0.327	44242.62662	V	-0.342
44241.75911	V	0.327	44242.62895	V	-0.342
44241.76280	V	0.334	44242.63128	V	-0.358
44241.76542	V	0.345	44242.63361	V	-0.358
44241.76928	V	0.350	44242.63702	V	-0.371
44241.77182	V	0.426	44242.63979	V	-0.362
44241.77459	V	0.332	44242.64207	V	-0.373
44241.77784	V	0.327	44242.64597	V	-0.390
44241.78119	V	0.362	44242.64813	V	-0.387
44241.78293	V	0.316	44259.59050	V	-0.687
44241.78631	V	0.322	44259.59244	V	-0.690
44241.79109	V	0.329	44259.59570	V	-0.700
44241.79539	V	0.309	44259.59777	V	-0.701
44241.79918	V	0.303	44259.60440	V	-0.686
44241.80377	V	0.282	44260.61722	V	-0.697
44241.80838	V	0.306	44260.61962	V	-0.691
44241.81339	V	0.317	44260.62183	V	-0.681
44241.81852	V	0.363	44260.62403	V	-0.682
44241.82315	V	0.321	44260.62593	V	-0.677
44241.82812	V	0.319	44260.62823	V	-0.687
44241.83253	V	0.296	44260.63380	V	-0.681
44242.50644	V	-0.045	44269.61692	V	-0.703
44242.51130	V	-0.075	44269.62041	V	-0.692
44242.51541	V	-0.073	44269.62290	V	-0.684
44242.51966	V	-0.087	44269.62536	V	-0.678
44242.52362	V	-0.100	44269.62674	V	-0.676
44242.52745	V	-0.102	44269.63138	V	-0.703
44242.53061	V	-0.112	44269.63418	V	-0.694
44242.53284	V	-0.127	44274.59689	V	-0.733

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44274.59924	V	-0.734	44148.91543	B	-0.694
44274.60350	V	-0.732	44153.86782	B	-0.682
44274.60595	V	-0.717	44153.87358	B	-0.685
44275.60156	V	-0.720	44153.87741	B	-0.704
44275.60187	V	-0.739	44153.87741	B	-0.704
44275.60218	V	-0.737	44153.88147	B	-0.706
44275.60374	V	-0.731	44162.72742	B	0.363
44275.60996	V	-0.719	44162.73020	B	0.382
44275.61245	V	-0.723	44162.73298	B	0.369
44277.59201	V	-0.706	44162.73576	B	0.388
44277.59516	V	-0.706	44162.73854	B	0.413
44277.60133	V	-0.723	44162.74131	B	0.427
44277.60395	V	-0.721	44162.74409	B	0.457
44277.60662	V	-0.737	44162.74687	B	0.436
44285.57969	V	-0.716	44162.75243	B	0.465
44285.58203	V	-0.723	44162.75520	B	0.568
44285.58439	V	-0.713	44162.75798	B	0.366
44285.58675	V	-0.717	44162.76076	B	0.389
44290.58349	V	-0.711	44185.71099	B	-0.672
44290.58591	V	-0.707	44185.71567	B	-0.667
44290.58940	V	-0.719	44185.71995	B	-0.671
44290.59190	V	-0.703	44185.72331	B	-0.668
44290.59415	V	-0.726	44185.72873	B	-0.673
44290.59651	V	-0.720	44192.78024	B	-0.657
44290.60040	V	-0.682	44192.78286	B	-0.674
44302.54165	V	-0.700	44193.75484	B	-0.664
44302.54374	V	-0.685	44193.75778	B	-0.669
44302.54662	V	-0.678	44193.76474	B	-0.686
44302.54876	V	-0.682	44193.76850	B	-0.694
44302.55177	V	-0.670	44193.77188	B	-0.682
44302.55403	V	-0.671	44198.79177	B	-0.668
44320.54157	V	0.460	44198.79486	B	-0.660
44320.54397	V	0.425	44198.79767	B	-0.659
44320.54740	V	0.416	44198.80055	B	-0.666
44320.55142	V	0.441	44204.71273	B	-0.689
44320.55379	V	0.405	44204.71580	B	-0.690
44320.55628	V	0.432	44204.71777	B	-0.695
44320.55869	V	0.456	44204.72055	B	-0.690
44324.54649	V	-0.740	44240.63852	B	-0.695
44324.54885	V	-0.741	44240.64263	B	-0.716
44324.55253	V	-0.711	44240.64564	B	-0.698
44324.55504	V	-0.716	44240.65142	B	-0.703
44324.55747	V	-0.694	44240.65523	B	-0.703
44345.54667	V	-0.772	44240.65809	B	-0.691
44345.54993	V	-0.842	44240.66102	B	-0.708
44345.55336	V	-0.812	44240.67785	B	-0.723
44345.55620	V	-0.810	44240.68090	B	-0.704
44345.55884	V	-0.885	44240.70397	B	-0.698
44346.54936	V	-0.788	44240.70902	B	-0.724
44346.55184	V	-0.764	44240.71438	B	-0.736
44346.55404	V	-0.779	44240.71833	B	-0.705
44346.55598	V	-0.916	44240.72323	B	-0.718
44148.90265	B	-0.688	44240.72840	B	-0.717
44148.90637	B	-0.698	44240.73263	B	-0.717
44148.91165	B	-0.716	44240.73739	B	-0.706

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44240.74242	B	-0.696	44241.66806	B	0.786
44240.74748	B	-0.720	44241.67067	B	0.770
44241.50646	B	0.777	44241.67416	B	0.770
44241.50925	B	0.791	44241.67637	B	0.800
44241.51400	B	0.820	44241.67880	B	0.800
44241.51666	B	0.803	44241.68127	B	0.881
44241.51982	B	0.825	44241.68377	B	0.794
44241.52580	B	0.765	44241.68604	B	0.789
44241.52832	B	0.770	44241.68881	B	0.781
44241.53155	B	0.775	44241.69329	B	0.770
44241.53476	B	0.804	44241.69585	B	0.799
44241.53658	B	0.799	44241.69821	B	0.784
44241.53902	B	0.777	44241.71948	B	0.824
44241.54116	B	0.789	44241.72371	B	0.796
44241.54479	B	0.794	44241.72610	B	0.776
44241.54740	B	0.766	44241.73107	B	0.796
44241.54983	B	0.792	44241.73463	B	0.774
44241.55326	B	0.792	44241.73814	B	0.796
44241.55561	B	0.783	44241.74157	B	0.786
44241.55846	B	0.799	44241.74558	B	0.769
44241.56093	B	0.789	44241.74908	B	0.792
44241.56358	B	0.828	44241.75168	B	0.823
44241.56749	B	0.796	44241.75265	B	0.803
44241.57074	B	0.781	44241.75648	B	0.789
44241.57355	B	0.786	44241.75935	B	0.757
44241.57595	B	0.779	44241.76305	B	0.782
44241.57948	B	0.784	44241.76566	B	0.755
44241.58184	B	0.774	44241.76953	B	0.775
44241.58452	B	0.823	44241.77205	B	0.869
44241.58577	B	0.780	44241.77481	B	0.773
44241.58836	B	0.798	44241.77809	B	0.734
44241.59116	B	0.801	44241.78141	B	0.792
44241.59371	B	0.786	44241.78192	B	0.760
44241.59719	B	0.789	44241.78699	B	0.783
44241.60007	B	0.801	44241.79148	B	0.741
44241.60311	B	0.785	44241.79565	B	0.770
44241.60545	B	0.811	44241.79951	B	0.772
44241.60771	B	0.799	44241.80416	B	0.786
44241.61032	B	0.779	44241.80872	B	0.691
44241.61445	B	0.806	44241.81374	B	0.694
44241.61767	B	0.801	44241.81893	B	0.681
44241.62139	B	0.791	44241.82352	B	0.657
44241.62419	B	0.803	44241.82847	B	0.645
44241.62716	B	0.787	44241.83300	B	0.635
44241.62996	B	0.781	44242.50666	B	0.198
44241.63286	B	0.816	44242.51152	B	0.151
44241.63664	B	0.824	44242.51583	B	0.152
44241.63941	B	0.798	44242.51988	B	0.136
44241.64313	B	0.787	44242.52384	B	0.127
44241.64582	B	0.797	44242.52767	B	0.102
44241.64853	B	0.759	44242.53082	B	0.104
44241.65753	B	0.807	44242.53306	B	0.085
44241.66022	B	0.816	44242.53597	B	0.070
44241.66283	B	0.813	44242.53830	B	0.055
44241.66567	B	0.818	44242.54125	B	0.052

RZ ERI 1979–1980

HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44242.54332	B	0.059	44275.58671	B	-0.585
44242.54621	B	0.068	44275.58723	B	-0.509
44242.54851	B	0.052	44275.60206	B	-0.675
44242.55139	B	0.043	44275.60421	B	-0.642
44242.55375	B	0.015	44275.61025	B	-0.684
44242.55742	B	-0.009	44275.61279	B	-0.694
44242.56054	B	-0.006	44277.59229	B	-0.685
44242.56265	B	-0.035	44277.59721	B	-0.690
44242.57585	B	-0.076	44277.60160	B	-0.692
44242.57870	B	-0.067	44277.60424	B	-0.697
44242.58148	B	-0.083	44277.60694	B	-0.679
44242.58426	B	-0.081	44285.57996	B	-0.684
44242.59044	B	-0.103	44285.58231	B	-0.676
44242.59908	B	-0.110	44285.58467	B	-0.676
44242.60346	B	-0.148	44285.58702	B	-0.678
44242.60662	B	-0.117	44290.58377	B	-0.695
44242.60879	B	-0.143	44290.58617	B	-0.690
44242.61171	B	-0.160	44290.58967	B	-0.712
44242.61423	B	-0.163	44290.59217	B	-0.697
44242.61647	B	-0.176	44290.59441	B	-0.686
44242.61937	B	-0.193	44290.59835	B	-0.678
44242.62158	B	-0.207	44290.60067	B	-0.681
44242.62397	B	-0.213	44302.54191	B	-0.687
44242.62685	B	-0.196	44302.54402	B	-0.663
44242.62916	B	-0.205	44302.54688	B	-0.665
44242.63150	B	-0.216	44302.54904	B	-0.671
44242.63384	B	-0.238	44302.55209	B	-0.663
44242.63727	B	-0.256	44302.55431	B	-0.661
44242.64001	B	-0.255	44320.54186	B	0.929
44242.64229	B	-0.256	44320.54423	B	0.866
44242.64620	B	-0.282	44320.54768	B	0.879
44242.64839	B	-0.276	44320.55169	B	0.885
44259.59070	B	-0.687	44320.55409	B	0.839
44259.59267	B	-0.685	44320.55658	B	0.840
44259.59590	B	-0.685	44320.55898	B	0.862
44259.59799	B	-0.671	44324.54677	B	-0.769
44259.60461	B	-0.660	44324.54913	B	-0.770
44260.61748	B	-0.667	44324.55282	B	-0.694
44260.61990	B	-0.661	44324.55532	B	-0.707
44260.62208	B	-0.671	44324.55774	B	-0.699
44260.62429	B	-0.665	44345.54695	B	-0.792
44260.62622	B	-0.670	44345.55020	B	-0.883
44260.62848	B	-0.671	44345.55364	B	-0.872
44260.63406	B	-0.654	44345.55646	B	-0.868
44269.61724	B	-0.685	44345.55912	B	-0.800
44269.62067	B	-0.671	44346.54964	B	-0.837
44269.62316	B	-0.667	44346.55209	B	-0.872
44269.62574	B	-0.659	44346.55431	B	-0.931
44269.62711	B	-0.651	44346.55625	B	-0.969
44269.63173	B	-0.674	44148.89927	U	-0.431
44269.63480	B	-0.684	44148.90317	U	-0.430
44274.59713	B	-0.705	44148.90693	U	-0.415
44274.59952	B	-0.688	44148.91213	U	-0.495
44274.60376	B	-0.701	44148.91597	U	-0.446
44274.60622	B	-0.692	44153.86829	U	-0.441

RZ ERI 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44153.87411	U	-0.402	44240.74775	U	-0.457
44153.87784	U	-0.431	44241.50676	U	1.341
44153.88190	U	-0.418	44241.50954	U	1.395
44162.72771	U	0.837	44241.51420	U	1.439
44162.73049	U	0.732	44241.51687	U	1.480
44162.73327	U	0.725	44241.52004	U	1.429
44162.73605	U	0.850	44241.52602	U	1.306
44162.73881	U	0.744	44241.52853	U	1.409
44162.74161	U	0.824	44241.53181	U	1.374
44162.74438	U	0.877	44241.53498	U	1.463
44162.74716	U	0.822	44241.53680	U	1.372
44162.75271	U	0.970	44241.53924	U	1.653
44162.75549	U	1.033	44241.54138	U	1.404
44162.75827	U	0.863	44241.54502	U	1.433
44162.76105	U	0.869	44241.54762	U	1.419
44185.71131	U	-0.402	44241.55006	U	1.425
44185.71602	U	-0.421	44241.55350	U	1.395
44185.72035	U	-0.462	44241.55583	U	1.295
44185.72367	U	-0.430	44241.55869	U	1.350
44185.72906	U	-0.357	44241.56116	U	1.363
44192.77532	U	-0.371	44241.56381	U	1.443
44192.77801	U	-0.347	44241.56770	U	1.386
44192.78053	U	-0.392	44241.57096	U	1.307
44192.78315	U	-0.392	44241.57380	U	1.335
44193.75516	U	-0.426	44241.57620	U	1.318
44193.75831	U	-0.387	44241.57970	U	1.281
44193.76503	U	-0.393	44241.58206	U	1.291
44193.76878	U	-0.381	44241.58476	U	1.318
44193.77218	U	-0.379	44241.58602	U	1.242
44198.79228	U	-0.366	44241.58870	U	1.378
44198.79523	U	-0.398	44241.59142	U	1.280
44198.79799	U	-0.370	44241.59395	U	1.238
44198.80093	U	-0.379	44241.59743	U	1.320
44204.71294	U	-0.446	44241.60037	U	1.389
44204.71602	U	-0.421	44241.60333	U	1.355
44204.71797	U	-0.392	44241.60569	U	1.259
44204.72076	U	-0.366	44241.60795	U	1.316
44240.63881	U	-0.420	44241.61059	U	1.376
44240.64292	U	-0.408	44241.61475	U	1.429
44240.64591	U	-0.398	44241.61797	U	1.396
44240.65170	U	-0.406	44241.62165	U	1.356
44240.65551	U	-0.390	44241.62445	U	1.339
44240.66131	U	-0.425	44241.62743	U	1.296
44240.67814	U	-0.404	44241.63023	U	1.429
44240.68119	U	-0.412	44241.63315	U	1.300
44240.69058	U	-0.408	44241.63687	U	1.519
44240.70426	U	-0.409	44241.63973	U	1.340
44240.70929	U	-0.410	44241.64340	U	1.320
44240.71466	U	-0.461	44241.64610	U	1.340
44240.71861	U	-0.442	44241.64879	U	1.273
44240.72352	U	-0.440	44241.65782	U	1.398
44240.72869	U	-0.389	44241.66045	U	1.401
44240.73375	U	-0.446	44241.66591	U	1.596
44240.73768	U	-0.445	44241.66831	U	1.417
44240.74271	U	-0.458	44241.67091	U	1.474

RZ ERI 1979–1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44241.67439	U	1.419	44242.56074	U	0.402
44241.67662	U	1.404	44242.56286	U	0.388
44241.67902	U	1.447	44242.57606	U	0.278
44241.68399	U	1.316	44242.57891	U	0.307
44241.68628	U	1.415	44242.58169	U	0.326
44241.68976	U	1.406	44242.58445	U	0.256
44241.69354	U	1.397	44242.59065	U	0.269
44241.69608	U	1.348	44242.59987	U	0.247
44241.71972	U	1.455	44242.60369	U	0.251
44241.72393	U	1.411	44242.60682	U	0.263
44241.72635	U	1.475	44242.60901	U	0.213
44241.73130	U	1.523	44242.61194	U	0.145
44241.73491	U	1.422	44242.61449	U	0.174
44241.73837	U	1.350	44242.61667	U	0.194
44241.74181	U	1.473	44242.61959	U	0.121
44241.74582	U	1.341	44242.62193	U	0.125
44241.74933	U	1.442	44242.62417	U	0.137
44241.75234	U	1.351	44242.62710	U	0.117
44241.75674	U	1.288	44242.62940	U	0.135
44241.75960	U	1.203	44242.63173	U	0.138
44241.76330	U	1.322	44242.63406	U	0.101
44241.76591	U	1.274	44242.63749	U	0.015
44241.76977	U	1.560	44242.64025	U	0.065
44241.77228	U	1.221	44242.64255	U	0.073
44241.77506	U	1.350	44242.64642	U	0.068
44241.77835	U	1.257	44242.64862	U	0.035
44241.78261	U	1.512	44259.59093	U	-0.404
44241.78733	U	1.426	44259.59289	U	-0.398
44241.79185	U	1.251	44259.59612	U	-0.389
44241.79596	U	1.236	44259.59821	U	-0.401
44241.79984	U	1.050	44259.60480	U	-0.398
44241.80462	U	1.447	44260.61776	U	-0.402
44241.80895	U	1.112	44260.62015	U	-0.387
44241.81409	U	1.401	44260.62235	U	-0.372
44241.81925	U	1.415	44260.62456	U	-0.397
44241.82389	U	1.268	44260.62648	U	-0.374
44241.82883	U	0.910	44260.62876	U	-0.388
44241.83339	U	1.345	44260.63435	U	-0.424
44242.50688	U	0.714	44269.61751	U	-0.396
44242.51173	U	0.570	44269.62094	U	-0.374
44242.51618	U	0.594	44269.62345	U	-0.374
44242.52009	U	0.637	44269.62607	U	-0.370
44242.52406	U	0.534	44269.62752	U	-0.368
44242.52789	U	0.455	44269.63208	U	-0.409
44242.53103	U	0.405	44269.63536	U	-0.403
44242.53330	U	0.506	44274.59741	U	-0.436
44242.53619	U	0.447	44274.59978	U	-0.400
44242.53852	U	0.422	44274.60402	U	-0.356
44242.54147	U	0.478	44274.60652	U	-0.390
44242.54355	U	0.502	44275.60320	U	-0.315
44242.54642	U	0.467	44275.60461	U	-0.293
44242.54873	U	0.423	44275.61056	U	-0.399
44242.55160	U	0.349	44275.61309	U	-0.426
44242.55397	U	0.356	44277.59257	U	-0.398
44242.55761	U	0.387	44277.59748	U	-0.398

RZ ERI 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44277.60188	U	-0.402	44302.55457	U	-0.378
44277.60452	U	-0.435	44320.54213	U	1.605
44277.60722	U	-0.380	44320.54450	U	1.528
44285.58024	U	-0.403	44320.54795	U	1.541
44285.58263	U	-0.395	44320.55196	U	1.432
44285.58492	U	-0.416	44320.55437	U	1.502
44285.58727	U	-0.393	44320.55687	U	1.418
44290.58402	U	-0.423	44320.55933	U	1.441
44290.58654	U	-0.480	44324.54703	U	-0.616
44290.58996	U	-0.478	44324.54939	U	-0.630
44290.59243	U	-0.412	44324.55318	U	-0.430
44290.59469	U	-0.407	44324.55558	U	-0.571
44290.59861	U	-0.390	44324.55799	U	-0.607
44290.60094	U	-0.405	44345.54722	U	-0.785
44302.54219	U	-0.384	44345.55047	U	-0.870
44302.54428	U	-0.407	44345.55412	U	-0.146
44302.54716	U	-0.386	44345.55672	U	-0.806
44302.54931	U	-0.397	44345.55938	U	-0.159
44302.55236	U	-0.388	44346.55235	U	-0.527

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44549.74136	V	-0.665	44581.63193	V	-0.649
44549.74410	V	-0.649	44581.63471	V	-0.646
44549.74660	V	-0.654	44581.63749	V	-0.641
44549.75284	V	-0.661	44581.64027	V	-0.651
44549.75518	V	-0.661	44581.64305	V	-0.640
44550.74438	V	-0.655	44581.64582	V	-0.656
44550.74720	V	-0.665	44581.64860	V	-0.642
44550.75019	V	-0.680	44581.65138	V	-0.637
44550.75300	V	-0.667	44581.65416	V	-0.646
44550.75573	V	-0.664	44581.65693	V	-0.650
44550.75841	V	-0.665	44581.65971	V	-0.654
44573.71344	V	-0.708	44581.66249	V	-0.656
44573.71719	V	-0.696	44581.66527	V	-0.633
44573.72115	V	-0.700	44581.66805	V	-0.630
44573.72500	V	-0.695	44581.67082	V	-0.653
44577.66502	V	-0.666	44581.67360	V	-0.644
44577.67283	V	-0.661	44581.67719	V	-0.656
44577.68033	V	-0.630	44581.67916	V	-0.656
44577.68878	V	-0.655	44581.68193	V	-0.659
44577.69119	V	-0.671	44581.68470	V	-0.673
44577.69370	V	-0.660	44581.68754	V	-0.656
44578.51435	V	-0.676	44581.69027	V	-0.632
44578.51663	V	-0.647	44581.69304	V	-0.648
44578.51902	V	-0.651	44581.69582	V	-0.652
44578.52202	V	-0.647	44581.69860	V	-0.658
44578.52424	V	-0.646	44581.70138	V	-0.637
44579.72779	V	-0.657	44581.70416	V	-0.643
44579.73026	V	-0.641	44581.70693	V	-0.638
44579.73342	V	-0.657	44581.70971	V	-0.646
44579.73555	V	-0.654	44581.71249	V	-0.644
44579.73717	V	-0.647	44581.71527	V	-0.639
44580.78843	V	-0.652	44581.71862	V	-0.645
44580.79277	V	-0.646	44581.72082	V	-0.639
44580.79693	V	-0.657	44581.72360	V	-0.640
44580.80186	V	-0.651	44581.72925	V	-0.645
44580.80627	V	-0.660	44581.73182	V	-0.628
44581.57916	V	-0.630	44581.73471	V	-0.642
44581.58194	V	-0.633	44581.73749	V	-0.652
44581.58471	V	-0.631	44581.74027	V	-0.644
44581.58749	V	-0.642	44581.74303	V	-0.637
44581.59027	V	-0.630	44581.74582	V	-0.646
44581.59305	V	-0.635	44581.74860	V	-0.649
44581.59582	V	-0.625	44581.75138	V	-0.650
44581.59860	V	-0.644	44581.75416	V	-0.645
44581.60138	V	-0.662	44581.75693	V	-0.652
44581.60416	V	-0.639	44581.75971	V	-0.658
44581.60693	V	-0.632	44581.76249	V	-0.652
44581.60971	V	-0.642	44581.76527	V	-0.645
44581.61251	V	-0.663	44581.76804	V	-0.639
44581.61527	V	-0.657	44581.77083	V	-0.660
44581.61803	V	-0.664	44581.77360	V	-0.648
44581.62082	V	-0.635	44581.77639	V	-0.651
44581.62360	V	-0.643	44581.77915	V	-0.652
44581.62638	V	-0.633	44581.78193	V	-0.645
44581.62916	V	-0.655	44581.78471	V	-0.633

RZ ERI 1980–1981

HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44581.78749	V	–0.630	44606.62175	V	–0.701
44581.79027	V	–0.633	44606.62433	V	–0.683
44581.79304	V	–0.639	44606.62706	V	–0.710
44581.79582	V	–0.637	44607.61437	V	–0.674
44581.79860	V	–0.651	44607.61656	V	–0.713
44581.80138	V	–0.646	44607.61886	V	–0.732
44581.80415	V	–0.629	44607.62509	V	–0.690
44581.80693	V	–0.631	44607.62735	V	–0.705
44581.80971	V	–0.626	44607.62953	V	–0.703
44581.81249	V	–0.633	44607.63163	V	–0.723
44581.81527	V	–0.627	44615.63539	V	–0.616
44581.81804	V	–0.628	44615.63877	V	–0.639
44581.82083	V	–0.636	44615.64208	V	–0.655
44581.82362	V	–0.642	44615.64465	V	–0.645
44581.82638	V	–0.631	44615.64709	V	–0.635
44581.82915	V	–0.626	44617.69367	V	–0.646
44581.83193	V	–0.621	44617.69608	V	–0.601
44581.83471	V	–0.632	44617.69948	V	–0.683
44581.83749	V	–0.625	44617.70196	V	–0.698
44581.84027	V	–0.617	44617.70443	V	–0.653
44581.84304	V	–0.625	44617.70794	V	–0.668
44581.84582	V	–0.620	44617.71026	V	–0.672
44581.84860	V	–0.604	44622.51028	V	–0.680
44581.85138	V	–0.631	44622.51380	V	–0.670
44581.85415	V	–0.631	44622.51693	V	–0.691
44581.85693	V	–0.628	44622.52065	V	–0.674
44581.65971	V	–0.637	44622.52292	V	–0.658
44581.85971	V	–0.637	44622.52615	V	–0.691
44581.86249	V	–0.633	44622.52871	V	–0.668
44581.86526	V	–0.664	44622.53231	V	–0.652
44583.73259	V	–0.658	44622.53506	V	–0.656
44583.73656	V	–0.651	44622.53800	V	–0.695
44583.73947	V	–0.659	44622.54181	V	–0.672
44583.74503	V	–0.660	44622.54428	V	–0.676
44583.74815	V	–0.645	44622.54692	V	–0.672
44586.75269	V	–0.639	44622.55056	V	–0.682
44586.75496	V	–0.653	44622.55309	V	–0.662
44586.75722	V	–0.677	44622.55564	V	–0.686
44586.75962	V	–0.686	44622.55821	V	–0.668
44586.77163	V	–0.677	44622.56077	V	–0.676
44586.77377	V	–0.677	44622.56322	V	–0.669
44586.77592	V	–0.640	44622.56550	V	–0.690
44592.68178	V	–0.718	44622.56965	V	–0.658
44592.68443	V	–0.700	44622.57110	V	–0.675
44592.68811	V	–0.692	44622.57338	V	–0.664
44592.69076	V	–0.704	44622.57575	V	–0.656
44592.69408	V	–0.709	44622.57856	V	–0.691
44592.69668	V	–0.707	44622.58105	V	–0.672
44592.70007	V	–0.701	44622.58395	V	–0.660
44592.70305	V	–0.718	44622.58655	V	–0.662
44593.73287	V	–0.687	44622.59134	V	–0.665
44593.73515	V	–0.680	44622.59596	V	–0.687
44606.60911	V	–0.732	44622.60543	V	–0.678
44606.61326	V	–0.721	44622.61048	V	–0.678
44606.61610	V	–0.732	44622.61354	V	–0.679

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44622.61716	V	-0.684	44634.54389	V	0.343
44622.62529	V	-0.657	44634.54652	V	0.341
44622.62817	V	-0.645	44634.54957	V	0.335
44622.63080	V	-0.682	44634.55258	V	0.343
44622.63446	V	-0.699	44634.55564	V	0.352
44622.63770	V	-0.676	44634.55894	V	0.366
44622.64033	V	-0.692	44634.56195	V	0.366
44622.64301	V	-0.626	44634.56741	V	0.365
44622.64548	V	-0.668	44634.57215	V	0.372
44622.64802	V	-0.671	44634.57535	V	0.367
44622.65064	V	-0.686	44634.57888	V	0.355
44622.65603	V	-0.687	44634.58395	V	0.333
44622.65962	V	-0.647	44634.58762	V	0.351
44622.66243	V	-0.683	44634.59698	V	0.340
44622.66502	V	-0.684	44634.60142	V	0.345
44622.66771	V	-0.667	44634.60470	V	0.386
44622.67018	V	-0.680	44634.60790	V	0.338
44622.67285	V	-0.731	44634.61105	V	0.353
44622.67636	V	-0.688	44634.61394	V	0.418
44622.67943	V	-0.680	44634.61701	V	0.385
44622.68636	V	-0.686	44634.62030	V	0.361
44622.68909	V	-0.685	44634.62331	V	0.369
44622.69287	V	-0.691	44634.62641	V	0.356
44622.69572	V	-0.681	44634.63069	V	0.358
44622.69843	V	-0.707	44634.63371	V	0.367
44622.70127	V	-0.690	44634.63673	V	0.345
44622.70508	V	-0.689	44634.63978	V	0.367
44622.70763	V	-0.690	44634.64291	V	0.375
44622.71033	V	-0.691	44634.64615	V	0.354
44622.71393	V	-0.684	44634.64928	V	0.361
44622.71647	V	-0.723	44634.65284	V	0.356
44622.71895	V	-0.675	44634.65852	V	0.357
44622.72185	V	-0.694	44634.66202	V	0.327
44622.72829	V	-0.666	44634.66517	V	0.341
44622.73205	V	-0.704	44634.66855	V	0.341
44622.73538	V	-0.693	44634.67291	V	0.350
44622.73594	V	-0.690	44634.67617	V	0.325
44622.73919	V	-0.658	44634.67987	V	0.366
44622.74236	V	-0.666	44634.68319	V	0.369
44622.74639	V	-0.704	44634.68649	V	0.368
44622.75053	V	-0.686	44634.68998	V	0.331
44622.75397	V	-0.678	44634.69344	V	0.313
44630.68403	V	-0.720	44634.69680	V	0.324
44630.68812	V	-0.746	44634.70004	V	0.344
44630.69229	V	-0.719	44634.70437	V	0.335
44630.70658	V	-0.730	44634.70801	V	0.325
44630.71223	V	-0.728	44639.54736	V	-0.700
44633.67778	V	-0.766	44639.54992	V	-0.718
44633.68006	V	-0.757	44639.55246	V	-0.711
44633.68239	V	-0.725	44639.55489	V	-0.719
44633.68475	V	-0.730	44639.55722	V	-0.730
44633.68712	V	-0.713	44641.55729	V	-0.718
44634.53505	V	0.350	44641.59998	V	-0.732
44634.53792	V	0.354	44641.60244	V	-0.714
44634.54095	V	0.345	44641.61208	V	-0.691

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44641.61609	V	-0.714	44549.74688	B	-0.640
44641.62284	V	-0.721	44549.75312	B	-0.649
44641.62808	V	-0.748	44549.75546	B	-0.648
44647.64447	V	-0.664	44550.74464	B	-0.646
44647.65247	V	-0.658	44550.74749	B	-0.667
44647.65456	V	-0.635	44550.75050	B	-0.651
44647.65670	V	-0.693	44550.75330	B	-0.654
44647.66076	V	-0.707	44550.75603	B	-0.647
44660.53037	V	-0.604	44550.75868	B	-0.645
44660.53370	V	-0.658	44573.71373	B	-0.673
44660.53719	V	-0.646	44573.71754	B	-0.664
44660.53954	V	-0.600	44573.72147	B	-0.675
44660.54301	V	-0.627	44573.72530	B	-0.681
44660.54545	V	-0.603	44577.66533	B	-0.614
44660.54904	V	-0.642	44577.67312	B	-0.643
44660.54904	V	-0.642	44577.68070	B	-0.643
44660.55147	V	-0.640	44577.68907	B	-0.639
44660.55417	V	-0.641	44577.69147	B	-0.650
44660.55640	V	-0.645	44577.69397	B	-0.654
44660.56569	V	-0.622	44578.51462	B	-0.651
44660.56722	V	-0.608	44578.51691	B	-0.642
44660.57068	V	-0.674	44578.51927	B	-0.643
44660.57409	V	-0.636	44578.52228	B	-0.641
44660.58452	V	-0.648	44578.52450	B	-0.651
44660.58770	V	-0.626	44579.72835	B	-0.632
44660.59166	V	-0.643	44579.73052	B	-0.638
44660.59721	V	-0.618	44579.73368	B	-0.628
44660.60231	V	-0.635	44579.73640	B	-0.634
44660.60543	V	-0.634	44580.78887	B	-0.652
44660.60841	V	-0.628	44580.79315	B	-0.639
44660.61148	V	-0.644	44580.79733	B	-0.644
44660.61632	V	-0.660	44580.80226	B	-0.634
44660.62308	V	-0.645	44580.80667	B	-0.642
44660.62632	V	-0.617	44581.57945	B	-0.620
44660.63032	V	-0.631	44581.58222	B	-0.622
44660.63488	V	-0.626	44581.58500	B	-0.631
44660.63886	V	-0.666	44581.58778	B	-0.610
44673.54259	V	0.280	44581.59056	B	-0.618
44673.54806	V	0.291	44581.59334	B	-0.612
44673.55101	V	0.315	44581.59611	B	-0.616
44673.55351	V	0.290	44581.59889	B	-0.621
44673.55632	V	0.309	44581.60167	B	-0.615
44673.55908	V	0.297	44581.60445	B	-0.613
44673.56199	V	0.300	44581.60722	B	-0.625
44673.56490	V	0.334	44581.61000	B	-0.620
44673.56777	V	0.263	44581.61279	B	-0.633
44673.57062	V	0.268	44581.61556	B	-0.624
44673.57314	V	0.304	44581.61834	B	-0.626
44673.57614	V	0.269	44581.62111	B	-0.605
44673.57931	V	0.293	44581.62389	B	-0.612
44673.58276	V	0.295	44581.62667	B	-0.628
44673.58566	V	0.341	44581.62945	B	-0.619
44673.58872	V	0.303	44581.63222	B	-0.631
44673.59150	V	0.270	44581.63500	B	-0.630
44549.74437	B	-0.641	44581.63778	B	-0.623

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44581.64056	B	-0.634	44581.80167	B	-0.639
44581.64333	B	-0.652	44581.80444	B	-0.634
44581.64611	B	-0.635	44581.80722	B	-0.628
44581.64889	B	-0.612	44581.81001	B	-0.638
44581.65167	B	-0.623	44581.81278	B	-0.626
44581.65445	B	-0.624	44581.81555	B	-0.628
44581.65722	B	-0.625	44581.81833	B	-0.635
44581.66000	B	-0.640	44581.82112	B	-0.640
44581.66278	B	-0.654	44581.82392	B	-0.631
44581.66556	B	-0.627	44581.82668	B	-0.631
44581.66833	B	-0.648	44581.82946	B	-0.627
44581.67111	B	-0.635	44581.83222	B	-0.643
44581.67391	B	-0.631	44581.83500	B	-0.652
44581.67639	B	-0.637	44581.83775	B	-0.617
44581.67945	B	-0.640	44581.84055	B	-0.627
44581.68222	B	-0.640	44581.84336	B	-0.620
44581.68500	B	-0.650	44581.84611	B	-0.638
44581.68781	B	-0.648	44581.84889	B	-0.637
44581.69056	B	-0.627	44581.85167	B	-0.649
44581.69333	B	-0.627	44581.85444	B	-0.641
44581.69611	B	-0.634	44581.85722	B	-0.632
44581.69891	B	-0.643	44581.86278	B	-0.659
44581.70445	B	-0.632	44581.86555	B	-0.659
44581.70722	B	-0.634	44583.73285	B	-0.650
44581.71000	B	-0.637	44583.73683	B	-0.646
44581.71278	B	-0.641	44583.73975	B	-0.650
44581.71556	B	-0.624	44583.74529	B	-0.660
44581.71833	B	-0.639	44583.74842	B	-0.653
44581.72389	B	-0.629	44586.75297	B	-0.609
44581.72951	B	-0.632	44586.75524	B	-0.654
44581.73222	B	-0.613	44586.75747	B	-0.661
44581.73501	B	-0.637	44586.75991	B	-0.684
44581.73778	B	-0.644	44586.77190	B	-0.656
44581.74057	B	-0.634	44586.77403	B	-0.668
44581.74333	B	-0.628	44586.77620	B	-0.627
44581.74612	B	-0.640	44592.68209	B	-0.705
44581.74889	B	-0.649	44592.68478	B	-0.681
44581.75167	B	-0.641	44592.68855	B	-0.675
44581.75444	B	-0.633	44592.69109	B	-0.645
44581.75722	B	-0.650	44592.69448	B	-0.668
44581.76000	B	-0.658	44592.69709	B	-0.651
44581.76279	B	-0.638	44592.70044	B	-0.676
44581.76556	B	-0.640	44592.70345	B	-0.691
44581.76833	B	-0.639	44593.73321	B	-0.699
44581.77112	B	-0.652	44593.73545	B	-0.721
44581.77389	B	-0.653	44606.60961	B	-0.677
44581.77669	B	-0.646	44606.61370	B	-0.692
44581.77944	B	-0.629	44606.61645	B	-0.695
44581.78222	B	-0.628	44606.62206	B	-0.675
44581.78501	B	-0.635	44606.62470	B	-0.648
44581.78778	B	-0.646	44606.62738	B	-0.672
44581.79056	B	-0.624	44607.61463	B	-0.706
44581.79333	B	-0.631	44607.61684	B	-0.699
44581.79611	B	-0.636	44607.61913	B	-0.655
44581.79898	B	-0.647	44607.62536	B	-0.669

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44607.62763	B	-0.687	44622.64342	B	-0.646
44607.62979	B	-0.682	44622.64576	B	-0.648
44607.63191	B	-0.699	44622.64831	B	-0.642
44615.63569	B	-0.603	44622.65096	B	-0.680
44615.63906	B	-0.632	44622.65368	B	-0.669
44615.64240	B	-0.645	44622.65630	B	-0.663
44615.64493	B	-0.638	44622.65993	B	-0.616
44615.64738	B	-0.639	44622.66270	B	-0.648
44617.69394	B	-0.654	44622.66535	B	-0.665
44617.69658	B	-0.657	44622.66799	B	-0.663
44617.69987	B	-0.672	44622.67048	B	-0.644
44617.70224	B	-0.678	44622.67317	B	-0.722
44617.70470	B	-0.656	44622.67673	B	-0.646
44617.70822	B	-0.667	44622.67975	B	-0.644
44617.71054	B	-0.651	44622.68674	B	-0.666
44622.51056	B	-0.641	44622.68943	B	-0.652
44622.51408	B	-0.652	44622.69333	B	-0.680
44622.51720	B	-0.662	44622.69601	B	-0.662
44622.52080	B	-0.633	44622.69872	B	-0.703
44622.52320	B	-0.628	44622.70164	B	-0.665
44622.52643	B	-0.659	44622.70541	B	-0.678
44622.52897	B	-0.635	44622.70795	B	-0.659
44622.53260	B	-0.634	44622.71070	B	-0.696
44622.53536	B	-0.639	44622.71429	B	-0.680
44622.53829	B	-0.685	44622.71681	B	-0.748
44622.54209	B	-0.655	44622.71932	B	-0.653
44622.54456	B	-0.646	44622.72219	B	-0.685
44622.54724	B	-0.644	44622.72869	B	-0.650
44622.55086	B	-0.666	44622.73244	B	-0.680
44622.55339	B	-0.636	44622.73641	B	-0.650
44622.55595	B	-0.657	44622.73958	B	-0.643
44622.55847	B	-0.647	44622.74279	B	-0.651
44622.56104	B	-0.661	44622.74682	B	-0.653
44622.56350	B	-0.644	44622.75094	B	-0.648
44622.56580	B	-0.679	44622.75440	B	-0.678
44622.56992	B	-0.633	44630.68442	B	-0.715
44622.57140	B	-0.648	44630.68850	B	-0.723
44622.57367	B	-0.659	44630.69266	B	-0.716
44622.57604	B	-0.636	44630.70698	B	-0.678
44622.57888	B	-0.671	44630.71272	B	-0.684
44622.58133	B	-0.655	44633.67805	B	-0.719
44622.58422	B	-0.653	44633.68036	B	-0.714
44622.58683	B	-0.637	44633.68268	B	-0.684
44622.59168	B	-0.624	44633.68503	B	-0.684
44622.59627	B	-0.668	44633.68738	B	-0.672
44622.60687	B	-0.657	44634.53543	B	0.810
44622.61083	B	-0.680	44634.53830	B	0.811
44622.61385	B	-0.668	44634.54132	B	0.817
44622.61746	B	-0.673	44634.54429	B	0.794
44622.62578	B	-0.632	44634.54691	B	0.791
44622.62848	B	-0.636	44634.54996	B	0.803
44622.63108	B	-0.680	44634.55297	B	0.796
44622.63481	B	-0.681	44634.55606	B	0.797
44622.63803	B	-0.687	44634.55931	B	0.821
44622.64062	B	-0.677	44634.56234	B	0.803

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44634.56787	B	0.848	44660.53063	B	-0.598
44634.57255	B	0.813	44660.53398	B	-0.667
44634.57574	B	0.809	44660.53749	B	-0.647
44634.57929	B	0.788	44660.53984	B	-0.592
44634.58436	B	0.783	44660.54332	B	-0.627
44634.58803	B	0.809	44660.54581	B	-0.607
44634.59736	B	0.800	44660.54937	B	-0.637
44634.60184	B	0.787	44660.55174	B	-0.625
44634.60511	B	0.831	44660.55443	B	-0.642
44634.60835	B	0.799	44660.55667	B	-0.640
44634.61147	B	0.802	44660.56609	B	-0.619
44634.61443	B	0.856	44660.56753	B	-0.605
44634.61741	B	0.822	44660.57099	B	-0.658
44634.62069	B	0.816	44660.57445	B	-0.638
44634.62371	B	0.819	44660.57928	B	-0.636
44634.62680	B	0.802	44660.58487	B	-0.658
44634.63108	B	0.808	44660.58803	B	-0.641
44634.63412	B	0.796	44660.58846	B	-0.656
44634.63713	B	0.802	44660.59195	B	-0.654
44634.64017	B	0.814	44660.59621	B	-0.665
44634.64334	B	0.814	44660.60261	B	-0.640
44634.64657	B	0.809	44660.60575	B	-0.642
44634.64967	B	0.797	44660.60872	B	-0.634
44634.65325	B	0.794	44660.61178	B	-0.645
44634.65893	B	0.805	44660.61665	B	-0.672
44634.66241	B	0.771	44660.62338	B	-0.651
44634.66556	B	0.800	44660.62662	B	-0.625
44634.66895	B	0.797	44660.63065	B	-0.673
44634.67329	B	0.808	44660.63520	B	-0.663
44634.67660	B	0.781	44660.63915	B	-0.663
44634.68031	B	0.814	44673.54259	B	0.825
44634.68362	B	0.844	44673.54843	B	0.715
44634.68698	B	0.789	44673.55140	B	0.733
44634.69041	B	0.772	44673.55387	B	0.745
44634.69386	B	0.748	44673.55671	B	0.740
44634.69721	B	0.754	44673.55945	B	0.727
44634.70047	B	0.788	44673.56234	B	0.734
44634.70479	B	0.761	44673.56530	B	0.752
44634.70841	B	0.743	44673.56813	B	0.684
44639.54768	B	-0.661	44673.57100	B	0.690
44639.55022	B	-0.669	44673.57351	B	0.730
44639.55273	B	-0.690	44673.57652	B	0.744
44639.55516	B	-0.691	44673.57970	B	0.792
44639.55750	B	-0.685	44673.58313	B	0.723
44641.59758	B	-0.662	44673.58602	B	0.730
44641.60030	B	-0.697	44673.58909	B	0.721
44641.60273	B	-0.702	44673.59187	B	0.736
44641.61648	B	-0.701	44549.74192	U	-0.364
44641.62316	B	-0.683	44549.74465	U	-0.371
44641.62845	B	-0.691	44549.74714	U	-0.374
44647.64472	B	-0.620	44549.75340	U	-0.358
44647.65272	B	-0.633	44549.75574	U	-0.354
44647.65483	B	-0.678	44550.74490	U	-0.351
44647.65697	B	-0.690	44550.74776	U	-0.360
44647.66104	B	-0.698	44550.75087	U	-0.361

RZ ERI 1980-1981

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44550.75359	U	-0.348	44581.65751	U	-0.320
44550.75629	U	-0.337	44581.66030	U	-0.366
44550.75895	U	-0.361	44581.66307	U	-0.337
44573.71402	U	-0.373	44581.66585	U	-0.341
44573.71784	U	-0.366	44581.66862	U	-0.344
44573.72179	U	-0.399	44581.67140	U	-0.342
44573.72558	U	-0.412	44581.67418	U	-0.349
44577.66562	U	-0.390	44581.67691	U	-0.362
44577.67340	U	-0.370	44581.67973	U	-0.352
44577.68106	U	-0.289	44581.68251	U	-0.383
44577.68936	U	-0.315	44581.68529	U	-0.399
44577.69173	U	-0.358	44581.68808	U	-0.323
44577.69422	U	-0.398	44581.69085	U	-0.318
44578.51490	U	-0.345	44581.69362	U	-0.345
44578.51718	U	-0.321	44581.69640	U	-0.358
44578.51953	U	-0.367	44581.69919	U	-0.352
44578.52254	U	-0.338	44581.70204	U	-0.339
44578.52476	U	-0.370	44581.70471	U	-0.330
44579.72862	U	-0.387	44581.70751	U	-0.332
44579.73078	U	-0.350	44581.71029	U	-0.351
44579.73395	U	-0.303	44581.71307	U	-0.346
44579.73680	U	-0.344	44581.71585	U	-0.358
44580.78924	U	-0.375	44581.71804	U	-0.396
44580.79368	U	-0.383	44581.72418	U	-0.353
44580.79778	U	-0.380	44581.72978	U	-0.393
44580.80264	U	-0.379	44581.73251	U	-0.329
44580.80706	U	-0.388	44581.73529	U	-0.354
44581.57974	U	-0.338	44581.73807	U	-0.368
44581.58251	U	-0.349	44581.74085	U	-0.365
44581.58529	U	-0.330	44581.74361	U	-0.333
44581.58807	U	-0.333	44581.74640	U	-0.315
44581.59085	U	-0.353	44581.74918	U	-0.368
44581.59362	U	-0.347	44581.75191	U	-0.340
44581.59640	U	-0.357	44581.75473	U	-0.367
44581.59918	U	-0.359	44581.75751	U	-0.359
44581.60196	U	-0.332	44581.76029	U	-0.370
44581.60474	U	-0.352	44581.76308	U	-0.347
44581.60751	U	-0.331	44581.76584	U	-0.404
44581.61029	U	-0.342	44581.76863	U	-0.319
44581.61308	U	-0.323	44581.77140	U	-0.381
44581.61585	U	-0.350	44581.77418	U	-0.356
44581.61862	U	-0.303	44581.77697	U	-0.372
44581.62140	U	-0.328	44581.77973	U	-0.369
44581.62418	U	-0.341	44581.78251	U	-0.332
44581.62696	U	-0.342	44581.78530	U	-0.376
44581.62974	U	-0.325	44581.78807	U	-0.440
44581.63251	U	-0.338	44581.79086	U	-0.405
44581.63529	U	-0.356	44581.79362	U	-0.345
44581.63807	U	-0.339	44581.79640	U	-0.345
44581.64085	U	-0.320	44581.79928	U	-0.383
44581.64362	U	-0.364	44581.80196	U	-0.356
44581.64640	U	-0.349	44581.80476	U	-0.386
44581.64918	U	-0.328	44581.80751	U	-0.361
44581.65196	U	-0.352	44581.81031	U	-0.389
44581.65474	U	-0.342	44581.81307	U	-0.320

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44581.81584	U	-0.338	44615.63936	U	-0.391
44581.81862	U	-0.356	44615.64282	U	-0.357
44581.82140	U	-0.374	44615.64523	U	-0.354
44581.82420	U	-0.371	44615.64766	U	-0.356
44581.82696	U	-0.357	44617.69422	U	-0.371
44581.82972	U	-0.346	44617.69687	U	-0.376
44581.83251	U	-0.291	44617.70013	U	-0.383
44581.83529	U	-0.347	44617.70253	U	-0.407
44581.83801	U	-0.328	44617.70499	U	-0.375
44581.84084	U	-0.328	44617.70849	U	-0.388
44581.84367	U	-0.367	44617.71083	U	-0.375
44581.84640	U	-0.304	44622.51084	U	-0.351
44581.84915	U	-0.350	44622.51433	U	-0.412
44581.85195	U	-0.346	44622.51748	U	-0.398
44581.85473	U	-0.384	44622.52108	U	-0.329
44581.85751	U	-0.346	44622.52348	U	-0.346
44581.86029	U	-0.403	44622.52669	U	-0.362
44581.86307	U	-0.297	44622.52925	U	-0.360
44581.86584	U	-0.475	44622.53287	U	-0.308
44583.73312	U	-0.379	44622.53564	U	-0.334
44583.73710	U	-0.372	44622.53860	U	-0.395
44583.74009	U	-0.431	44622.54236	U	-0.343
44583.74557	U	-0.369	44622.54485	U	-0.382
44583.74867	U	-0.346	44622.54754	U	-0.353
44586.75325	U	-0.312	44622.55117	U	-0.348
44586.75549	U	-0.384	44622.55369	U	-0.366
44586.75790	U	-0.279	44622.55626	U	-0.376
44586.76017	U	-0.373	44622.55875	U	-0.347
44586.77217	U	-0.371	44622.56131	U	-0.357
44586.77429	U	-0.382	44622.56379	U	-0.336
44586.77646	U	-0.346	44622.56608	U	-0.366
44592.68243	U	-0.401	44622.57020	U	-0.340
44592.68507	U	-0.332	44622.57168	U	-0.377
44592.68887	U	-0.387	44622.57394	U	-0.374
44592.69139	U	-0.319	44622.57648	U	-0.307
44592.69482	U	-0.410	44622.57917	U	-0.391
44592.69739	U	-0.345	44622.58161	U	-0.332
44592.70075	U	-0.390	44622.58451	U	-0.345
44592.70380	U	-0.420	44622.58720	U	-0.322
44593.73348	U	-0.422	44622.59297	U	-0.390
44593.73571	U	-0.418	44622.59656	U	-0.369
44606.60995	U	-0.397	44622.60721	U	-0.397
44606.61417	U	-0.359	44622.61112	U	-0.391
44606.61683	U	-0.392	44622.61413	U	-0.392
44606.62235	U	-0.386	44622.61778	U	-0.367
44606.62523	U	-0.387	44622.62617	U	-0.441
44606.62768	U	-0.380	44622.62878	U	-0.414
44607.61490	U	-0.425	44622.63136	U	-0.426
44607.61712	U	-0.398	44622.63522	U	-0.369
44607.61941	U	-0.330	44622.63835	U	-0.382
44607.62567	U	-0.452	44622.64093	U	-0.390
44607.62789	U	-0.390	44622.64370	U	-0.355
44607.63007	U	-0.382	44622.64607	U	-0.343
44607.63218	U	-0.397	44622.64857	U	-0.341
44615.63598	U	-0.339	44622.65123	U	-0.396

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44622.65401	U	-0.404	44634.58480	U	1.363
44622.65657	U	-0.379	44634.58845	U	1.438
44622.66042	U	-0.366	44634.59777	U	1.381
44622.66303	U	-0.352	44634.60221	U	1.393
44622.66569	U	-0.346	44634.60565	U	1.436
44622.66834	U	-0.347	44634.60875	U	1.385
44622.67065	U	-0.318	44634.61185	U	1.401
44622.67344	U	-0.427	44634.61486	U	1.489
44622.67734	U	-0.384	44634.61783	U	1.425
44622.68005	U	-0.327	44634.62109	U	1.402
44622.68711	U	-0.369	44634.62412	U	1.460
44622.68977	U	-0.366	44634.62722	U	1.408
44622.69364	U	-0.382	44634.63150	U	1.400
44622.69632	U	-0.367	44634.63451	U	1.424
44622.69908	U	-0.426	44634.63752	U	1.373
44622.70192	U	-0.365	44634.64060	U	1.438
44622.70569	U	-0.402	44634.64373	U	1.450
44622.70822	U	-0.400	44634.64696	U	1.346
44622.71100	U	-0.430	44634.65008	U	1.403
44622.71459	U	-0.375	44634.65366	U	1.388
44622.71706	U	-0.503	44634.65936	U	1.413
44622.71979	U	-0.393	44634.66281	U	1.389
44622.72261	U	-0.449	44634.66598	U	1.441
44622.72910	U	-0.380	44634.66937	U	1.374
44622.73288	U	-0.454	44634.67373	U	1.346
44622.73700	U	-0.392	44634.67718	U	1.424
44622.74008	U	-0.329	44634.68073	U	1.395
44622.74317	U	-0.369	44634.68401	U	1.481
44622.74726	U	-0.380	44634.68739	U	1.419
44622.75145	U	-0.408	44634.69081	U	1.363
44622.75486	U	-0.451	44634.69431	U	1.335
44630.68480	U	-0.431	44634.69762	U	1.337
44630.68887	U	-0.440	44634.70093	U	1.348
44630.69400	U	-0.491	44634.70525	U	1.372
44630.70740	U	-0.410	44634.70878	U	1.312
44630.71322	U	-0.459	44639.54794	U	-0.375
44633.67633	U	-0.445	44639.55053	U	-0.377
44633.68062	U	-0.412	44639.55303	U	-0.369
44633.68297	U	-0.401	44639.55544	U	-0.378
44633.68532	U	-0.419	44639.55780	U	-0.378
44633.68768	U	-0.370	44641.59786	U	-0.371
44634.53580	U	1.403	44641.60058	U	-0.419
44634.53868	U	1.418	44641.60302	U	-0.412
44634.54169	U	1.434	44641.61689	U	-0.406
44634.54468	U	1.391	44641.62354	U	-0.446
44634.54736	U	1.380	44641.62887	U	-0.417
44634.55033	U	1.358	44647.64497	U	-0.377
44634.55336	U	1.425	44647.65296	U	-0.367
44634.55645	U	1.392	44647.65510	U	-0.401
44634.55970	U	1.382	44647.65722	U	-0.409
44634.56272	U	1.351	44647.66131	U	-0.437
44634.56912	U	1.421	44660.53089	U	-0.280
44634.57296	U	1.400	44660.53425	U	-0.386
44634.57618	U	1.407	44660.53779	U	-0.350
44634.57969	U	1.331	44660.54029	U	-0.361

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44660.54362	U	-0.382	44660.62693	U	-0.382
44660.54626	U	-0.375	44660.63096	U	-0.442
44660.54969	U	-0.372	44660.63550	U	-0.429
44660.55205	U	-0.344	44660.63946	U	-0.406
44660.55471	U	-0.361	44673.54383	U	1.330
44660.55699	U	-0.393	44673.54882	U	1.307
44660.56643	U	-0.341	44673.55178	U	1.314
44660.56782	U	-0.303	44673.55424	U	1.340
44660.57129	U	-0.416	44673.55707	U	1.399
44660.57504	U	-0.347	44673.55981	U	1.300
44660.57958	U	-0.385	44673.56274	U	1.272
44660.58517	U	-0.413	44673.56565	U	1.364
44660.58892	U	-0.418	44673.56850	U	1.255
44660.59225	U	-0.458	44673.57137	U	1.323
44660.59674	U	-0.355	44673.57388	U	1.326
44660.60291	U	-0.382	44673.57692	U	1.279
44660.60606	U	-0.382	44673.58007	U	1.381
44660.60901	U	-0.378	44673.58350	U	1.411
44660.61209	U	-0.397	44673.58639	U	1.385
44660.61696	U	-0.397	44673.58946	U	1.337
44660.62367	U	-0.414	44673.59225	U	1.310

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43952.67129	V	-0.610	43960.64515	B	-0.409
43952.67525	V	-0.613	43960.64909	B	-0.391
43952.67881	V	-0.627	43960.65427	B	-0.384
43952.69116	V	-0.609	43960.65792	B	-0.393
43953.66120	V	-0.551	43960.66153	B	-0.390
43953.66636	V	-0.540	43960.66510	B	-0.399
43953.67195	V	-0.542	43960.67079	B	-0.435
43953.67598	V	-0.543	43960.67768	B	-0.405
43958.64089	V	-0.484	43960.68838	B	-0.399
43958.64470	V	-0.472	43960.69249	B	-0.402
43958.64806	V	-0.495	43960.69603	B	-0.377
43958.65157	V	-0.504	43960.69955	B	-0.403
43960.62750	V	-0.562	43960.70326	B	-0.418
43960.63131	V	-0.571	43960.70709	B	-0.428
43960.64078	V	-0.563	43960.71081	B	-0.428
43960.64466	V	-0.567	43952.67217	U	-0.319
43960.64864	V	-0.574	43952.67619	U	-0.290
43960.65381	V	-0.565	43952.67971	U	-0.338
43960.65744	V	-0.559	43952.69230	U	-0.326
43960.66106	V	-0.560	43953.66252	U	-0.236
43960.66466	V	-0.579	43953.66761	U	-0.252
43960.67033	V	-0.580	43953.67298	U	-0.227
43960.67722	V	-0.570	43953.67711	U	-0.233
43960.68797	V	-0.560	43958.64176	U	-0.150
43960.69188	V	-0.555	43958.64561	U	-0.136
43960.69558	V	-0.573	43958.64888	U	-0.190
43960.69908	V	-0.573	43958.65241	U	-0.187
43960.70280	V	-0.565	43960.62849	U	-0.246
43960.70655	V	-0.557	43960.63234	U	-0.238
43960.71036	V	-0.569	43960.64183	U	-0.265
43952.67173	B	-0.450	43960.64561	U	-0.275
43952.67575	B	-0.442	43960.64967	U	-0.233
43952.67929	B	-0.439	43960.65467	U	-0.277
43952.69173	B	-0.454	43960.65844	U	-0.246
43953.66190	B	-0.364	43960.66204	U	-0.283
43953.66702	B	-0.367	43960.66557	U	-0.306
43953.67248	B	-0.365	43960.67126	U	-0.392
43953.67655	B	-0.373	43960.67812	U	-0.251
43958.64131	B	-0.326	43960.68888	U	-0.251
43958.64514	B	-0.314	43960.69294	U	-0.296
43958.64845	B	-0.316	43960.69650	U	-0.271
43958.65200	B	-0.332	43960.70003	U	-0.290
43960.62798	B	-0.405	43960.70373	U	-0.248
43960.63177	B	-0.416	43960.70756	U	-0.306
43960.64127	B	-0.412	43960.71129	U	-0.239

GK HYA 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44177.89207	V	-0.510	44276.65273	V	-0.402
44177.89578	V	-0.499	44276.65551	V	-0.400
44177.89923	V	-0.509	44276.65830	V	-0.395
44177.90260	V	-0.504	44276.66107	V	-0.355
44177.90569	V	-0.506	44276.66384	V	-0.361
44192.82359	V	-0.548	44276.66665	V	-0.377
44192.82674	V	-0.560	44276.66940	V	-0.387
44192.83075	V	-0.572	44276.67218	V	-0.359
44192.83513	V	-0.571	44276.67496	V	-0.384
44192.84424	V	-0.562	44276.67773	V	-0.375
44193.81609	V	-0.559	44276.68051	V	-0.366
44193.81935	V	-0.543	44276.68329	V	-0.370
44193.82510	V	-0.531	44276.68607	V	-0.360
44225.86839	V	-0.547	44276.68884	V	-0.360
44225.87541	V	-0.541	44276.69165	V	-0.348
44225.87782	V	-0.554	44276.69440	V	-0.357
44225.88078	V	-0.556	44276.69718	V	-0.355
44225.88455	V	-0.548	44276.69996	V	-0.351
44225.88839	V	-0.554	44276.70551	V	-0.339
44225.89155	V	-0.555	44276.70829	V	-0.360
44259.74504	V	-0.554	44276.71108	V	-0.347
44259.74780	V	-0.533	44276.71384	V	-0.366
44259.75059	V	-0.554	44276.71662	V	-0.365
44259.75349	V	-0.564	44276.72218	V	-0.325
44259.75670	V	-0.536	44276.72495	V	-0.360
44259.76534	V	-0.546	44276.72773	V	-0.382
44273.58583	V	-0.603	44276.73051	V	-0.352
44273.59147	V	-0.545	44276.73329	V	-0.376
44273.59680	V	-0.565	44276.73607	V	-0.376
44273.60100	V	-0.562	44276.73884	V	-0.346
44273.60512	V	-0.604	44276.74162	V	-0.336
44274.58183	V	-0.535	44276.74440	V	-0.348
44274.58414	V	-0.547	44276.74732	V	-0.382
44274.58675	V	-0.582	44276.74995	V	-0.383
44274.58931	V	-0.565	44276.75273	V	-0.386
44274.59209	V	-0.552	44277.63257	V	-0.517
44275.68461	V	-0.556	44277.63627	V	-0.530
44275.68817	V	-0.535	44277.63907	V	-0.535
44275.69274	V	-0.524	44277.64193	V	-0.535
44275.69665	V	-0.552	44277.64472	V	-0.540
44275.70067	V	-0.558	44277.64830	V	-0.537
44276.61084	V	-0.444	44277.65125	V	-0.538
44276.61383	V	-0.451	44277.65444	V	-0.563
44276.61662	V	-0.446	44277.65710	V	-0.553
44276.61940	V	-0.448	44277.66081	V	-0.554
44276.62218	V	-0.435	44277.66841	V	-0.551
44276.62496	V	-0.416	44277.67184	V	-0.544
44276.63051	V	-0.398	44277.67497	V	-0.524
44276.63329	V	-0.407	44277.67779	V	-0.541
44276.63607	V	-0.402	44277.68091	V	-0.541
44276.63888	V	-0.412	44277.68388	V	-0.528
44276.64162	V	-0.390	44277.68639	V	-0.535
44276.64464	V	-0.409	44277.68908	V	-0.567
44276.64718	V	-0.407	44277.69306	V	-0.548
44276.64996	V	-0.382	44277.69745	V	-0.558

GK HYA 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44277.70046	V	-0.532	44341.56921	V	-0.586
44277.70324	V	-0.551	44341.57158	V	-0.578
44277.70730	V	-0.550	44345.60142	V	-0.578
44277.71023	V	-0.548	44345.60848	V	-0.555
44277.71403	V	-0.542	44345.61117	V	-0.568
44285.59920	V	-0.143	44350.59814	V	-0.559
44285.60201	V	-0.151	44350.60170	V	-0.554
44285.60471	V	-0.149	44350.60650	V	-0.530
44285.60703	V	-0.114	44365.56511	V	-0.527
44285.61007	V	-0.085	44365.56769	V	-0.559
44285.61268	V	-0.080	44365.57253	V	-0.514
44285.61529	V	-0.093	44365.57508	V	-0.567
44285.61802	V	-0.111	44365.57750	V	-0.626
44290.66779	V	-0.580	44177.89236	B	-0.343
44290.67022	V	-0.587	44177.89606	B	-0.344
44290.67389	V	-0.567	44177.89950	B	-0.332
44290.67681	V	-0.573	44177.90287	B	-0.329
44290.67942	V	-0.564	44177.90597	B	-0.313
44290.68378	V	-0.618	44192.82387	B	-0.412
44290.68702	V	-0.600	44192.82703	B	-0.407
44290.69091	V	-0.618	44192.83104	B	-0.422
44291.66557	V	-0.557	44192.83541	B	-0.434
44291.66585	V	-0.513	44192.84451	B	-0.412
44291.66805	V	-0.547	44193.81637	B	-0.398
44291.67067	V	-0.545	44193.82064	B	-0.382
44291.67370	V	-0.540	44193.82536	B	-0.366
44291.67967	V	-0.541	44225.86864	B	-0.396
44320.62675	V	-0.629	44225.87565	B	-0.382
44320.62974	V	-0.571	44225.87807	B	-0.381
44320.63084	V	-0.561	44225.88101	B	-0.398
44320.63359	V	-0.569	44225.88481	B	-0.390
44320.63609	V	-0.560	44225.88867	B	-0.357
44320.63865	V	-0.553	44225.89179	B	-0.376
44320.64574	V	-0.572	44259.74534	B	-0.369
44340.59233	V	-0.546	44259.74806	B	-0.375
44340.59480	V	-0.551	44259.75087	B	-0.374
44340.59735	V	-0.547	44259.75380	B	-0.377
44340.59973	V	-0.560	44259.75699	B	-0.377
44340.60212	V	-0.561	44259.76564	B	-0.373
44340.60452	V	-0.555	44273.58610	B	-0.440
44340.60691	V	-0.538	44273.59175	B	-0.404
44340.60925	V	-0.575	44273.59708	B	-0.405
44340.61219	V	-0.544	44273.60127	B	-0.531
44340.61448	V	-0.548	44273.60537	B	-0.473
44340.61781	V	-0.526	44274.58211	B	-0.375
44340.62043	V	-0.535	44274.58440	B	-0.392
44340.62308	V	-0.541	44274.58701	B	-0.415
44340.62670	V	-0.551	44274.58957	B	-0.405
44340.62941	V	-0.560	44274.59234	B	-0.407
44340.63232	V	-0.548	44275.68489	B	-0.370
44340.63517	V	-0.537	44275.68844	B	-0.371
44340.63767	V	-0.499	44275.69301	B	-0.382
44341.56126	V	-0.565	44275.69691	B	-0.396
44341.56356	V	-0.553	44275.70096	B	-0.393
44341.56693	V	-0.554	44276.61113	B	-0.296

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44276.61413	B	-0.300	44277.65474	B	-0.365
44276.61691	B	-0.278	44277.65796	B	-0.373
44276.61969	B	-0.266	44277.66110	B	-0.358
44276.62247	B	-0.266	44277.66875	B	-0.375
44276.62525	B	-0.276	44277.67213	B	-0.377
44276.63079	B	-0.261	44277.67526	B	-0.359
44276.63358	B	-0.211	44277.67807	B	-0.367
44276.63636	B	-0.211	44277.68121	B	-0.344
44276.63916	B	-0.246	44277.68415	B	-0.362
44276.64191	B	-0.225	44277.68668	B	-0.363
44276.64490	B	-0.229	44277.68936	B	-0.374
44276.64747	B	-0.229	44277.69345	B	-0.386
44276.65025	B	-0.232	44277.69774	B	-0.364
44276.65302	B	-0.213	44277.70076	B	-0.376
44276.65580	B	-0.228	44277.70353	B	-0.372
44276.65858	B	-0.214	44277.70760	B	-0.367
44276.66136	B	-0.215	44277.71061	B	-0.379
44276.66413	B	-0.231	44277.71435	B	-0.370
44276.66692	B	-0.192	44285.59947	B	0.118
44276.66969	B	-0.206	44285.60227	B	0.106
44276.67247	B	-0.148	44285.60499	B	0.128
44276.67524	B	-0.208	44285.60739	B	0.150
44276.67802	B	-0.208	44285.61034	B	0.208
44276.68080	B	-0.208	44285.61299	B	0.209
44276.68357	B	-0.199	44285.61557	B	0.179
44276.68637	B	-0.170	44285.61831	B	0.192
44276.68913	B	-0.198	44290.66806	B	-0.413
44276.69195	B	-0.194	44290.67050	B	-0.446
44276.69469	B	-0.201	44290.67419	B	-0.413
44276.69747	B	-0.180	44290.67712	B	-0.386
44276.70024	B	-0.196	44290.67972	B	-0.405
44276.70580	B	-0.192	44290.68414	B	-0.439
44276.70858	B	-0.184	44290.68732	B	-0.420
44276.71138	B	-0.201	44290.69121	B	-0.415
44276.71413	B	-0.222	44291.66834	B	-0.361
44276.71691	B	-0.183	44291.67097	B	-0.375
44276.72247	B	-0.210	44291.67396	B	-0.325
44276.72524	B	-0.208	44291.68011	B	-0.375
44276.72802	B	-0.222	44320.62703	B	-0.444
44276.73080	B	-0.189	44320.63001	B	-0.411
44276.73357	B	-0.214	44320.63114	B	-0.399
44276.73636	B	-0.196	44320.63388	B	-0.401
44276.73913	B	-0.203	44320.63637	B	-0.402
44276.74191	B	-0.206	44320.63893	B	-0.381
44276.74468	B	-0.198	44320.64602	B	-0.409
44276.74760	B	-0.205	44340.59259	B	-0.380
44276.75024	B	-0.208	44340.59507	B	-0.367
44276.75302	B	-0.236	44340.59762	B	-0.368
44277.63302	B	-0.364	44340.60000	B	-0.371
44277.63655	B	-0.367	44340.60239	B	-0.390
44277.63937	B	-0.377	44340.60478	B	-0.378
44277.64222	B	-0.359	44340.60720	B	-0.365
44277.64502	B	-0.391	44340.60954	B	-0.405
44277.64860	B	-0.374	44340.61246	B	-0.376
44277.65156	B	-0.378	44340.61476	B	-0.363

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44340.61809	B	-0.376	44274.58467	U	-0.246
44340.62071	B	-0.391	44274.58731	U	-0.278
44340.62335	B	-0.380	44274.58983	U	-0.284
44340.62698	B	-0.381	44274.59263	U	-0.250
44340.62968	B	-0.387	44275.68517	U	-0.267
44340.63266	B	-0.381	44275.68889	U	-0.264
44340.63545	B	-0.418	44275.69329	U	-0.266
44340.63797	B	-0.356	44275.69719	U	-0.225
44341.56151	B	-0.406	44275.70124	U	-0.264
44341.56384	B	-0.376	44276.61140	U	-0.168
44341.56720	B	-0.398	44276.61441	U	-0.207
44341.56948	B	-0.398	44276.61720	U	-0.143
44341.57184	B	-0.414	44276.61998	U	-0.160
44345.60176	B	-0.398	44276.62276	U	-0.134
44345.60877	B	-0.411	44276.62553	U	-0.155
44345.61145	B	-0.408	44276.63109	U	-0.127
44350.59847	B	-0.358	44276.63387	U	-0.123
44350.60233	B	-0.401	44276.63665	U	-0.192
44350.60679	B	-0.388	44276.63944	U	-0.127
44365.56539	B	-0.388	44276.64220	U	-0.129
44365.56796	B	-0.431	44276.64515	U	-0.185
44365.57306	B	-0.444	44276.64776	U	-0.202
44365.57535	B	-0.428	44276.65053	U	-0.130
44365.57779	B	-0.469	44276.65331	U	-0.136
44177.89262	U	-0.210	44276.65609	U	-0.137
44177.89633	U	-0.249	44276.65887	U	-0.088
44177.89978	U	-0.171	44276.66165	U	-0.150
44177.90315	U	-0.159	44276.66442	U	-0.157
44177.90625	U	-0.130	44276.66720	U	-0.075
44192.82416	U	-0.201	44276.66997	U	-0.173
44192.82731	U	-0.240	44276.67276	U	-0.088
44192.83130	U	-0.254	44276.67553	U	-0.070
44192.83569	U	-0.345	44276.67831	U	-0.108
44192.84479	U	-0.272	44276.68109	U	-0.126
44193.81671	U	-0.304	44276.68387	U	-0.055
44193.82101	U	-0.252	44276.68665	U	-0.121
44193.82565	U	-0.225	44276.68942	U	-0.087
44225.86888	U	-0.317	44276.69222	U	-0.065
44225.87587	U	-0.238	44276.69501	U	-0.068
44225.88130	U	-0.305	44276.69776	U	-0.068
44225.88504	U	-0.300	44276.70053	U	-0.086
44225.88889	U	-0.271	44276.70609	U	-0.038
44225.89204	U	-0.265	44276.71164	U	-0.055
44259.74562	U	-0.257	44276.71442	U	-0.103
44259.74836	U	-0.234	44276.71720	U	-0.103
44259.75116	U	-0.249	44276.72277	U	-0.117
44259.75428	U	-0.208	44276.72553	U	-0.074
44259.75725	U	-0.230	44276.72831	U	-0.081
44259.76596	U	-0.217	44276.73109	U	-0.100
44273.58637	U	-0.383	44276.73388	U	-0.150
44273.59203	U	-0.253	44276.73664	U	-0.092
44273.59735	U	-0.268	44276.73942	U	-0.021
44273.60153	U	-0.438	44276.74222	U	-0.140
44273.60565	U	-0.348	44276.74498	U	-0.053
44274.58238	U	-0.197	44276.74788	U	-0.141

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44276.75053	U	-0.141	44291.66861	U	-0.228
44276.75331	U	-0.148	44291.67128	U	-0.338
44277.63359	U	-0.231	44291.67424	U	-0.214
44277.63684	U	-0.236	44291.68055	U	-0.280
44277.63966	U	-0.204	44320.62732	U	-0.264
44277.64250	U	-0.220	44320.63029	U	-0.258
44277.64530	U	-0.204	44320.63144	U	-0.251
44277.64889	U	-0.274	44320.63416	U	-0.306
44277.65195	U	-0.252	44320.63665	U	-0.292
44277.65503	U	-0.213	44320.63918	U	-0.296
44277.65825	U	-0.212	44320.64638	U	-0.243
44277.66138	U	-0.247	44340.59286	U	-0.268
44277.66617	U	-0.192	44340.59535	U	-0.227
44277.66903	U	-0.212	44340.59787	U	-0.277
44277.67242	U	-0.220	44340.60028	U	-0.271
44277.67554	U	-0.116	44340.60265	U	-0.271
44277.67840	U	-0.264	44340.60506	U	-0.252
44277.68175	U	-0.236	44340.60748	U	-0.238
44277.68443	U	-0.227	44340.60981	U	-0.261
44277.68695	U	-0.279	44340.61272	U	-0.259
44277.68963	U	-0.244	44340.61503	U	-0.198
44277.69372	U	-0.323	44340.61838	U	-0.251
44277.69800	U	-0.255	44340.62099	U	-0.238
44277.70110	U	-0.270	44340.62362	U	-0.238
44277.70385	U	-0.263	44340.62728	U	-0.248
44277.70789	U	-0.244	44340.62997	U	-0.255
44277.71090	U	-0.296	44340.63301	U	-0.266
44277.71463	U	-0.241	44340.63574	U	-0.250
44285.59974	U	0.432	44340.63826	U	-0.231
44285.60255	U	0.407	44341.56179	U	-0.317
44285.60527	U	0.461	44341.56409	U	-0.313
44285.60811	U	0.425	44341.56747	U	-0.285
44285.61062	U	0.435	44341.56975	U	-0.277
44285.61324	U	0.484	44341.57210	U	-0.288
44285.61584	U	0.450	44345.60201	U	-0.262
44285.61659	U	0.458	44345.60905	U	-0.241
44290.66841	U	-0.343	44345.61171	U	-0.315
44290.67076	U	-0.262	44350.59876	U	-0.262
44290.67448	U	-0.237	44350.60330	U	-0.236
44290.67742	U	-0.264	44350.60719	U	-0.286
44290.68001	U	-0.249	44365.56564	U	-0.301
44290.68442	U	-0.273	44365.56823	U	-0.535
44290.68760	U	-0.290	44365.57331	U	-0.421
44290.69151	U	-0.243	44365.57561	U	-0.268
44291.66618	U	-0.179	44365.57807	U	-0.209

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43853.54182	V	-0.415	44011.86186	V	-0.975
43853.56439	V	-0.545	44011.86739	V	-0.990
43853.57249	V	-0.624	44011.87122	V	-0.986
43853.57799	V	-0.643	44011.87463	V	-0.984
43853.58464	V	-0.669	44011.88086	V	-0.963
43853.59072	V	-0.675	44011.88595	V	-0.973
43853.61688	V	-0.739	44011.89093	V	-0.981
43853.62145	V	-0.766	43853.54246	B	-0.721
43853.62932	V	-0.811	43853.56526	B	-0.728
43855.59256	V	-0.757	43853.57330	B	-0.745
43855.59742	V	-0.779	43853.57851	B	-0.727
43855.60321	V	-0.818	43853.58522	B	-0.795
43855.60767	V	-0.816	43853.59136	B	-0.799
43855.61368	V	-0.828	43853.61740	B	-0.797
43855.61814	V	-0.837	43853.62197	B	-0.826
43855.62404	V	-0.855	43853.62984	B	-0.866
43855.62827	V	-0.870	43855.59314	B	-0.837
43855.63388	V	-0.875	43855.59794	B	-0.855
43855.63845	V	-0.905	43855.60362	B	-0.874
43856.52960	V	-0.398	43855.60819	B	-0.884
43856.53324	V	-0.404	43855.61409	B	-0.907
43856.53897	V	-0.400	43855.61860	B	-0.909
43856.54326	V	-0.395	43855.62451	B	-0.917
43879.51567	V	-0.924	43855.62867	B	-0.935
43879.52487	V	-0.938	43855.63434	B	-0.941
43879.52985	V	-0.939	43855.63903	B	-0.960
43879.53801	V	-0.938	43856.53000	B	-0.340
43879.54356	V	-0.939	43856.53371	B	-0.340
43879.54848	V	-0.943	43856.53949	B	-0.331
43879.55450	V	-0.932	43856.54372	B	-0.323
44010.82760	V	-1.035	43879.51631	B	-0.983
44010.83346	V	-0.986	43879.52545	B	-0.990
44010.83730	V	-1.017	43879.53048	B	-0.994
44010.84169	V	-1.017	43879.53864	B	-0.978
44010.84800	V	-0.986	43879.54414	B	-0.985
44010.85136	V	-1.032	43879.54906	B	-0.978
44010.85489	V	-1.304	43879.55496	B	-0.969
44010.85903	V	-1.017	44010.82812	B	-1.061
44010.86023	V	-1.028	44010.83415	B	-1.048
44010.86829	V	-1.008	44010.83777	B	-1.072
44010.87162	V	-0.999	44010.84223	B	-1.048
44010.87657	V	-1.010	44010.84849	B	-1.054
44010.88183	V	-1.000	44010.85190	B	-1.045
44010.88699	V	-1.004	44010.85582	B	-1.072
44010.89296	V	-1.043	44010.85960	B	-1.085
44011.82190	V	-0.997	44010.86875	B	-1.053
44011.82631	V	-0.985	44010.87207	B	-1.041
44011.83086	V	-0.977	44010.87711	B	-1.074
44011.83406	V	-0.975	44010.88248	B	-1.054
44011.83867	V	-0.981	44010.88755	B	-1.049
44011.84173	V	-0.979	44010.89350	B	-1.062
44011.84481	V	-0.993	44011.82249	B	-1.028
44011.84954	V	-0.970	44011.82689	B	-1.024
44011.85460	V	-0.996	44011.83128	B	-1.019
44011.85813	V	-0.988	44011.83452	B	-1.010

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HELIC. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44011.83909	B	-1.037	43879.52597	U	-1.093
44011.84212	B	-1.045	43879.53100	U	-1.111
44011.84607	B	-1.060	43879.53916	U	-1.058
44011.85006	B	-1.003	43879.54402	U	-1.075
44011.85515	B	-1.045	43879.54952	U	-1.084
44011.85860	B	-1.044	43879.55554	U	-1.067
44011.86234	B	-1.022	44010.82857	U	-1.163
44011.86800	B	-0.971	44010.83459	U	-1.185
44011.87169	B	-1.037	44010.83889	U	-1.149
44011.87503	B	-0.992	44010.84276	U	-1.136
44011.88132	B	-1.026	44010.84896	U	-1.140
44011.88650	B	-0.994	44010.85232	U	-1.139
44011.89148	B	-1.012	44010.85636	U	-1.179
43853.54310	U	-0.929	44010.86079	U	-1.173
43853.56613	U	-0.876	44010.86919	U	-1.154
43853.57400	U	-0.926	44010.87259	U	-1.149
43853.57903	U	-0.928	44010.87759	U	-1.174
43853.58586	U	-0.889	44010.88292	U	-1.174
43853.59194	U	-0.917	44010.88812	U	-1.153
43853.61792	U	-1.009	44010.89395	U	-1.127
43853.62249	U	-1.049	44011.82300	U	-1.149
43855.59389	U	-0.965	44011.82739	U	-1.137
43855.59841	U	-1.003	44011.83167	U	-1.117
43855.60419	U	-1.011	44011.83507	U	-1.132
43855.60871	U	-1.015	44011.83947	U	-1.126
43855.61473	U	-1.030	44011.84251	U	-1.140
43855.61907	U	-1.042	44011.84695	U	-1.113
43855.62503	U	-1.014	44011.85058	U	-1.106
43855.62908	U	-1.048	44011.85562	U	-1.140
43855.63510	U	-1.075	44011.85910	U	-1.121
43855.63955	U	-1.072	44011.86289	U	-1.123
43856.53047	U	-0.243	44011.86851	U	-1.144
43856.53417	U	-0.248	44011.87210	U	-1.135
43856.53996	U	-0.253	44011.87632	U	-1.145
43856.54343	U	-0.255	44011.88178	U	-1.157
43879.51683	U	-1.090	44011.88700	U	-1.168
			44011.89205	U	-1.174

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44148.57967	V	-0.957	44148.73591	V	-1.018
44148.58950	V	-1.018	44148.73800	V	-1.022
44148.61189	V	-1.024	44148.74009	V	-1.029
44148.62342	V	-1.016	44148.74217	V	-1.016
44148.62550	V	-1.026	44148.74450	V	-1.020
44148.62758	V	-1.023	44148.74633	V	-1.007
44148.62966	V	-1.022	44148.74842	V	-1.006
44148.63174	V	-1.021	44148.75049	V	-0.996
44148.63384	V	-1.024	44148.75259	V	-1.001
44148.63592	V	-1.017	44148.75467	V	-1.018
44148.64008	V	-1.025	44148.75675	V	-1.022
44148.64217	V	-1.026	44148.75884	V	-1.013
44148.64425	V	-1.033	44148.76091	V	-1.011
44148.64634	V	-1.015	44148.76299	V	-1.016
44148.64842	V	-1.023	44148.76509	V	-1.002
44148.65050	V	-1.030	44148.76717	V	-1.009
44148.65259	V	-1.014	44148.76924	V	-1.007
44148.65467	V	-1.020	44148.77134	V	-1.016
44148.65675	V	-1.025	44148.77274	V	-1.019
44148.65883	V	-1.022	44148.77481	V	-0.972
44148.66092	V	-1.008	44148.77688	V	-1.009
44148.66300	V	-1.017	44148.77898	V	-0.990
44148.66508	V	-1.021	44148.78106	V	-0.999
44148.66717	V	-1.015	44148.78314	V	-0.988
44148.66925	V	-1.032	44148.78521	V	-0.984
44148.67134	V	-1.027	44148.78732	V	-0.994
44148.67341	V	-1.020	44148.78943	V	-0.990
44148.67549	V	-1.015	44148.79146	V	-1.007
44148.67758	V	-1.031	44148.79355	V	-0.979
44148.68175	V	-1.024	44148.79588	V	-0.982
44148.68384	V	-1.027	44148.79752	V	-0.981
44148.68591	V	-1.015	44148.79980	V	-0.995
44148.68799	V	-1.021	44148.80216	V	-0.998
44148.69009	V	-1.021	44148.80397	V	-0.990
44148.69217	V	-1.011	44148.80606	V	-0.989
44148.69424	V	-1.010	44148.80814	V	-0.997
44148.69633	V	-1.016	44148.81231	V	-0.999
44148.69841	V	-1.009	44148.81474	V	-0.980
44148.70049	V	-1.016	44148.81656	V	-0.994
44148.70259	V	-1.015	44148.81856	V	-0.979
44148.70466	V	-1.008	44148.82066	V	-0.990
44148.70675	V	-1.005	44148.82271	V	-0.994
44148.70884	V	-1.001	44148.82483	V	-0.983
44148.71092	V	-1.016	44148.82689	V	-0.973
44148.71300	V	-1.011	44149.53035	V	-0.968
44148.71509	V	-1.017	44149.53244	V	-0.975
44148.71717	V	-1.017	44149.53452	V	-0.991
44148.71924	V	-1.020	44149.53660	V	-0.953
44148.72134	V	-1.019	44149.53869	V	-0.973
44148.72342	V	-1.013	44149.54076	V	-0.969
44148.72549	V	-1.028	44149.54284	V	-0.977
44148.72758	V	-1.006	44149.54493	V	-0.897
44148.72967	V	-1.007	44149.54701	V	-1.012
44148.73179	V	-1.031	44149.54909	V	-1.008
44148.73383	V	-1.014	44149.55118	V	-0.954

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44149.55327	V	-0.994	44149.66994	V	-0.965
44149.55534	V	-0.976	44149.67202	V	-0.992
44149.55743	V	-0.964	44149.67410	V	-0.998
44149.55952	V	-0.940	44149.67617	V	-0.983
44149.56160	V	-0.969	44149.67827	V	-0.981
44149.56369	V	-0.968	44149.68035	V	-0.985
44149.56576	V	-0.979	44149.68244	V	-0.984
44149.56784	V	-0.944	44149.68452	V	-0.966
44149.56994	V	-0.972	44149.68660	V	-0.986
44149.57202	V	-0.990	44149.68869	V	-0.961
44149.57409	V	-0.971	44149.69077	V	-0.973
44149.57619	V	-0.975	44149.69285	V	-0.982
44149.57827	V	-0.962	44149.69495	V	-0.974
44149.58034	V	-0.978	44149.70119	V	-0.977
44149.58244	V	-0.988	44149.70327	V	-0.992
44149.58452	V	-0.991	44149.70535	V	-0.997
44149.58659	V	-0.983	44149.70742	V	-0.996
44149.58868	V	-0.972	44149.70984	V	-0.999
44149.59077	V	-0.980	44149.71163	V	-1.005
44149.59494	V	-0.964	44149.71392	V	-1.006
44149.59701	V	-0.973	44149.71789	V	-0.965
44149.59910	V	-0.974	44149.71994	V	-1.009
44149.60118	V	-0.976	44149.72202	V	-1.035
44149.60329	V	-0.968	44149.72410	V	-0.983
44149.60535	V	-0.966	44149.72623	V	-0.961
44149.60744	V	-0.998	44149.72827	V	-0.996
44149.60953	V	-0.979	44149.73036	V	-0.958
44149.61161	V	-0.985	44149.73244	V	-0.966
44149.61369	V	-0.984	44149.73452	V	-0.966
44149.61576	V	-0.973	44149.73660	V	-0.978
44149.61785	V	-0.969	44149.73869	V	-0.964
44149.61994	V	-0.973	44149.74079	V	-0.966
44149.62207	V	-0.969	44149.74293	V	-0.992
44149.62409	V	-0.977	44149.74495	V	-0.956
44149.62619	V	-0.985	44149.74702	V	-0.999
44149.62826	V	-0.988	44149.74910	V	-0.974
44149.63035	V	-0.996	44149.75118	V	-0.980
44149.63245	V	-0.991	44149.75330	V	-0.990
44149.63458	V	-0.970	44149.75535	V	-0.971
44149.63666	V	-0.970	44149.75747	V	-0.991
44149.63867	V	-0.981	44149.75953	V	-0.979
44149.64077	V	-0.974	44149.76165	V	-0.997
44149.64284	V	-0.979	44149.76368	V	-0.976
44149.64494	V	-0.987	44149.76577	V	-0.957
44149.64701	V	-0.971	44153.53758	V	-0.987
44149.64910	V	-0.977	44153.53967	V	-0.977
44149.65119	V	-0.968	44153.54176	V	-0.969
44149.65327	V	-1.003	44153.54383	V	-0.969
44149.65535	V	-0.974	44153.54592	V	-0.973
44149.65744	V	-0.977	44153.54799	V	-0.976
44149.65952	V	-0.976	44153.55008	V	-0.978
44149.66164	V	-0.986	44153.55220	V	-0.979
44149.66369	V	-0.964	44153.55425	V	-0.976
44149.66578	V	-0.959	44153.55633	V	-0.975
44149.66790	V	-0.981	44153.55842	V	-0.972

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44153.56050	V	-0.975	44153.67717	V	-0.998
44153.56258	V	-0.971	44153.67925	V	-0.982
44153.56467	V	-0.968	44153.68133	V	-0.994
44153.56675	V	-0.971	44153.68342	V	-0.988
44153.56883	V	-0.971	44153.68550	V	-0.979
44153.57092	V	-0.976	44153.68758	V	-0.976
44153.57300	V	-0.981	44153.68966	V	-0.984
44153.57508	V	-0.965	44153.69175	V	-0.989
44153.57717	V	-0.972	44153.69383	V	-0.985
44153.57925	V	-0.967	44153.69591	V	-0.979
44153.58133	V	-0.966	44153.69800	V	-0.980
44153.58342	V	-0.972	44153.70008	V	-0.993
44153.58550	V	-0.976	44153.70216	V	-0.993
44153.58758	V	-0.980	44153.70425	V	-0.984
44153.58967	V	-0.983	44153.70633	V	-0.984
44153.59175	V	-0.974	44153.70841	V	-0.979
44153.59383	V	-0.971	44153.71050	V	-0.996
44153.59592	V	-0.976	44153.71258	V	-0.994
44153.59800	V	-0.974	44153.71466	V	-0.989
44153.60008	V	-0.975	44153.71675	V	-0.992
44153.60217	V	-0.988	44153.71883	V	-0.991
44153.60425	V	-0.976	44153.72091	V	-0.995
44153.60633	V	-0.973	44153.72300	V	-0.993
44153.60842	V	-0.981	44153.72508	V	-0.981
44153.61050	V	-0.970	44153.72716	V	-0.981
44153.61270	V	-0.977	44153.72925	V	-0.981
44153.61465	V	-0.990	44153.73133	V	-0.973
44153.61675	V	-0.977	44153.73341	V	-0.986
44153.61883	V	-0.991	44153.73550	V	-0.989
44153.62092	V	-0.975	44153.73758	V	-0.991
44153.62300	V	-0.977	44153.73966	V	-0.987
44153.62508	V	-0.978	44153.74175	V	-0.984
44153.62739	V	-0.990	44153.74384	V	-0.964
44153.62925	V	-0.979	44153.74593	V	-1.005
44153.63133	V	-0.973	44153.74800	V	-0.972
44153.63340	V	-0.968	44153.75008	V	-0.983
44153.63538	V	-0.962	44153.75216	V	-0.986
44153.63770	V	-0.967	44153.75425	V	-0.986
44153.63977	V	-0.975	44153.75633	V	-0.991
44153.64175	V	-0.982	44153.75846	V	-0.984
44153.64383	V	-0.980	44153.76050	V	-0.978
44153.64592	V	-0.987	44153.76258	V	-0.982
44153.64799	V	-0.987	44153.76466	V	-0.974
44153.65008	V	-0.988	44153.76676	V	-0.989
44153.65217	V	-0.999	44153.76883	V	-0.991
44153.65426	V	-0.975	44153.77091	V	-0.985
44153.65633	V	-0.991	44153.77301	V	-0.989
44153.65842	V	-1.003	44153.77508	V	-0.985
44153.66119	V	-0.984	44153.77716	V	-0.981
44153.66258	V	-0.985	44153.77925	V	-0.987
44153.66467	V	-0.983	44153.78132	V	-0.983
44153.66675	V	-0.985	44153.78341	V	-0.981
44153.66882	V	-0.986	44153.78550	V	-0.998
44153.67092	V	-0.985	44153.78758	V	-0.978
44153.67508	V	-0.970	44153.78966	V	-0.990

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HELIO. J.D.	FILTER	V-C
44153.79175	V	-0.988
44153.79383	V	-0.993
44153.79592	V	-0.996
44153.79800	V	-0.982
44153.80015	V	-0.991
44153.80216	V	-0.992
44153.80425	V	-0.991
44171.60273	V	-0.955
44171.60483	V	-0.958
44171.60620	V	-0.946
44171.60829	V	-0.947
44171.61037	V	-0.942
44171.61315	V	-0.948
44171.61523	V	-0.954
44171.61731	V	-0.956
44171.61940	V	-1.002
44171.61962	V	-0.954
44171.62148	V	-0.954
44171.62356	V	-0.960
44171.62565	V	-0.948
44171.62773	V	-0.956
44171.62981	V	-0.953
44171.63195	V	-0.948
44171.63398	V	-0.943
44171.63606	V	-0.946
44171.63815	V	-0.946
44171.64023	V	-0.939
44171.64256	V	-0.940
44171.64440	V	-0.958
44171.64648	V	-0.951
44171.64856	V	-0.947
44171.65065	V	-0.945
44171.65273	V	-0.954
44171.65481	V	-0.951
44171.65690	V	-0.943
44171.65898	V	-0.934
44171.66106	V	-0.938
44171.66317	V	-0.949
44171.66524	V	-0.945
44171.66731	V	-0.950
44171.66940	V	-0.957
44171.67148	V	-0.945
44171.67368	V	-0.935
44171.67565	V	-0.943
44171.67773	V	-0.950
44171.67987	V	-0.964
44171.68190	V	-0.959
44171.68398	V	-0.944
44171.68606	V	-0.951
44171.68814	V	-0.951
44171.69023	V	-0.944
44171.69246	V	-0.951
44171.69439	V	-0.959
44171.69648	V	-0.943
44171.69856	V	-0.954
44171.70066	V	-0.937
44171.70273	V	-0.940
44171.70503	V	-0.946
44171.70689	V	-0.935
44171.70898	V	-0.940
44171.71106	V	-0.928
44171.71314	V	-0.918
44177.62473	V	-0.952
44177.62694	V	-0.949
44177.62889	V	-0.943
44177.63098	V	-0.953
44177.63306	V	-0.958
44177.63519	V	-0.962
44177.63723	V	-0.954
44177.63931	V	-0.954
44177.64150	V	-0.942
44177.64348	V	-0.958
44177.64556	V	-0.965
44177.64764	V	-0.944
44177.64976	V	-0.950
44177.65183	V	-0.958
44177.65389	V	-0.945
44177.65599	V	-0.962
44177.65806	V	-0.942
44177.66014	V	-0.933
44177.66222	V	-0.926
44177.66431	V	-0.926
44177.66639	V	-0.931
44177.66849	V	-0.915
44177.67056	V	-0.901
44177.67264	V	-0.888
44177.67472	V	-0.907
44177.67681	V	-0.888
44177.67891	V	-0.877
44177.68097	V	-0.866
44177.68306	V	-0.841
44177.68516	V	-0.842
44177.68722	V	-0.830
44177.68931	V	-0.832
44177.69139	V	-0.818
44177.69347	V	-0.793
44177.69556	V	-0.787
44177.69764	V	-0.797
44177.69972	V	-0.767
44177.70199	V	-0.735
44177.70392	V	-0.740
44177.70607	V	-0.699
44177.70808	V	-0.686
44177.71014	V	-0.688
44177.71225	V	-0.668
44177.71431	V	-0.664
44177.71639	V	-0.643
44177.71847	V	-0.633
44177.72056	V	-0.618
44177.72264	V	-0.581

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44177.72472	V	-0.556	44192.61327	V	-0.770
44177.72681	V	-0.539	44192.61535	V	-0.763
44177.72889	V	-0.535	44192.61744	V	-0.740
44177.73097	V	-0.555	44192.61952	V	-0.742
44177.73306	V	-0.526	44192.62160	V	-0.736
44192.50703	V	-0.957	44192.62369	V	-0.741
44192.50911	V	-0.952	44192.62577	V	-0.727
44192.51328	V	-0.962	44192.62785	V	-0.718
44192.51536	V	-0.965	44192.62996	V	-0.720
44192.51748	V	-0.952	44192.63202	V	-0.730
44192.51953	V	-0.953	44192.63410	V	-0.722
44192.52161	V	-0.968	44192.63618	V	-0.711
44192.52370	V	-0.963	44192.63827	V	-0.711
44192.52578	V	-0.938	44192.64035	V	-0.714
44192.52791	V	-0.952	44192.64244	V	-0.701
44192.52995	V	-0.955	44192.64244	V	-0.701
44192.53203	V	-0.955	44192.64458	V	-0.694
44192.53411	V	-0.934	44192.64660	V	-0.703
44192.53619	V	-0.945	44192.64869	V	-0.704
44192.53828	V	-0.947	44192.65100	V	-0.710
44192.54036	V	-0.938	44192.65285	V	-0.704
44192.54244	V	-0.946	44192.65494	V	-0.686
44192.54453	V	-0.940	44192.65702	V	-0.694
44192.54683	V	-0.933	44192.65910	V	-0.686
44192.54869	V	-0.922	44192.66117	V	-0.668
44192.55077	V	-0.923	44192.66334	V	-0.684
44192.55286	V	-0.918	44192.66535	V	-0.683
44192.55494	V	-0.918	44192.66744	V	-0.672
44192.55702	V	-0.905	44192.66952	V	-0.670
44192.55911	V	-0.913	44192.67163	V	-0.682
44192.56119	V	-0.896	44192.67369	V	-0.669
44192.56327	V	-0.900	44192.67583	V	-0.675
44192.56536	V	-0.900	44192.67785	V	-0.670
44192.56745	V	-0.893	44192.67993	V	-0.687
44192.56976	V	-0.889	44192.68202	V	-0.672
44192.57167	V	-0.892	44192.68410	V	-0.665
44192.57369	V	-0.877	44192.68618	V	-0.671
44192.57577	V	-0.874	44192.68827	V	-0.655
44192.57786	V	-0.878	44192.69035	V	-0.661
44192.57994	V	-0.863	44192.69243	V	-0.676
44192.58202	V	-0.879	44192.69452	V	-0.675
44192.58411	V	-0.867	44192.69660	V	-0.664
44192.58628	V	-0.846	44192.69868	V	-0.680
44192.58827	V	-0.840	44192.70078	V	-0.670
44192.59036	V	-0.841	44192.70285	V	-0.673
44192.59244	V	-0.802	44192.70498	V	-0.647
44192.59453	V	-0.819	44192.70702	V	-0.674
44192.59661	V	-0.832	44192.70911	V	-0.677
44192.59869	V	-0.818	44192.71118	V	-0.669
44192.60077	V	-0.802	44194.64711	V	-0.691
44192.60286	V	-0.805	44194.64919	V	-0.679
44192.60494	V	-0.787	44194.65127	V	-0.684
44192.60703	V	-0.779	44194.65336	V	-0.673
44192.60911	V	-0.775	44194.65544	V	-0.682
44192.61119	V	-0.773	44194.65752	V	-0.673

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44194.65961	V	-0.680	44198.62745	V	-0.686
44194.66169	V	-0.689	44198.62953	V	-0.680
44194.66377	V	-0.668	44198.63161	V	-0.676
44194.66586	V	-0.661	44198.63370	V	-0.666
44194.66794	V	-0.675	44198.63578	V	-0.677
44194.67002	V	-0.678	44198.63786	V	-0.659
44194.67211	V	-0.679	44198.64019	V	-0.684
44194.67419	V	-0.671	44198.64203	V	-0.698
44194.67627	V	-0.678	44198.64411	V	-0.671
44194.67836	V	-0.675	44198.64621	V	-0.686
44194.68044	V	-0.680	44198.64828	V	-0.671
44194.68252	V	-0.675	44198.65271	V	-0.670
44194.68460	V	-0.668	44198.65453	V	-0.683
44194.68669	V	-0.665	44198.65661	V	-0.674
44194.68877	V	-0.671	44198.65894	V	-0.671
44194.69085	V	-0.670	44204.53614	V	-0.667
44194.69294	V	-0.666	44204.53823	V	-0.670
44194.69502	V	-0.668	44204.54031	V	-0.666
44194.69734	V	-0.670	44204.54239	V	-0.658
44194.69919	V	-0.681	44204.54448	V	-0.653
44194.70127	V	-0.672	44204.54656	V	-0.652
44194.70337	V	-0.669	44204.54864	V	-0.658
44194.70544	V	-0.679	44204.55073	V	-0.657
44194.70752	V	-0.677	44204.55281	V	-0.652
44194.70960	V	-0.670	44204.55489	V	-0.657
44194.71169	V	-0.685	44204.55697	V	-0.648
44194.71377	V	-0.707	44204.55906	V	-0.657
44194.71585	V	-0.735	44204.56114	V	-0.646
44198.57120	V	-0.738	44204.56322	V	-0.654
44198.57328	V	-0.731	44204.56531	V	-0.654
44198.57537	V	-0.721	44204.56739	V	-0.648
44198.57745	V	-0.721	44204.56947	V	-0.651
44198.57953	V	-0.717	44204.57186	V	-0.654
44198.58165	V	-0.716	44204.57352	V	-0.661
44198.58370	V	-0.707	44204.57574	V	-0.645
44198.58578	V	-0.706	44204.57781	V	-0.645
44198.58787	V	-0.706	44204.57989	V	-0.646
44198.58995	V	-0.702	44204.58197	V	-0.649
44198.59203	V	-0.706	44204.58406	V	-0.649
44198.59412	V	-0.706	44204.58614	V	-0.642
44198.59620	V	-0.695	44204.58822	V	-0.653
44198.59828	V	-0.692	44204.59031	V	-0.647
44198.60037	V	-0.698	44204.59239	V	-0.650
44198.60245	V	-0.700	44204.59447	V	-0.656
44198.60461	V	-0.693	44204.59656	V	-0.653
44198.60662	V	-0.687	44204.59864	V	-0.647
44198.60870	V	-0.683	44204.60072	V	-0.660
44198.61078	V	-0.680	44204.60281	V	-0.657
44198.61292	V	-0.681	44204.60498	V	-0.651
44198.61495	V	-0.687	44204.60697	V	-0.650
44198.61703	V	-0.690	44204.60906	V	-0.658
44198.61912	V	-0.686	44204.61114	V	-0.660
44198.62122	V	-0.690	44204.61330	V	-0.665
44198.62328	V	-0.686	44204.61530	V	-0.658
44198.62537	V	-0.687	44204.61739	V	-0.656

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44204.61947	V	-0.667	44217.56808	V	-0.823
44204.62155	V	-0.667	44217.57005	V	-0.819
44204.62364	V	-0.672	44217.57225	V	-0.838
44204.62572	V	-0.687	44217.57433	V	-0.837
44204.62780	V	-0.697	44217.57642	V	-0.865
44204.62989	V	-0.689	44217.57850	V	-0.882
44204.63197	V	-0.681	44217.58058	V	-0.879
44204.63405	V	-0.696	44217.58267	V	-0.886
44204.63614	V	-0.704	44217.58475	V	-0.907
44204.63822	V	-0.712	44217.58683	V	-0.916
44204.64030	V	-0.720	44217.58892	V	-0.926
44204.64239	V	-0.736	44217.59100	V	-0.934
44204.64447	V	-0.736	44217.59308	V	-0.946
44204.64655	V	-0.737	44217.59517	V	-0.958
44204.64865	V	-0.730	44217.59725	V	-0.964
44204.65072	V	-0.737	44217.59933	V	-0.959
44204.65280	V	-0.745	44217.60142	V	-0.965
44204.65489	V	-0.758	44217.60350	V	-0.957
44204.65697	V	-0.768	44217.60558	V	-0.971
44204.65905	V	-0.768	44217.60767	V	-0.983
44204.66114	V	-0.780	44217.60975	V	-0.987
44204.66322	V	-0.777	44217.61183	V	-1.001
44204.66530	V	-0.789	44218.50136	V	-0.691
44204.66739	V	-0.787	44218.50344	V	-0.715
44204.66947	V	-0.801	44218.50553	V	-0.693
44204.67155	V	-0.802	44218.50769	V	-0.731
44204.67363	V	-0.801	44218.50969	V	-0.719
44204.67572	V	-0.819	44218.51178	V	-0.736
44204.67780	V	-0.824	44218.51389	V	-0.732
44217.51392	V	-0.442	44218.51599	V	-0.760
44217.51600	V	-0.427	44218.51803	V	-0.778
44217.51809	V	-0.460	44218.52011	V	-0.746
44217.52017	V	-0.464	44218.52219	V	-0.779
44217.52225	V	-0.502	44218.52428	V	-0.746
44217.52434	V	-0.508	44218.52636	V	-0.772
44217.52644	V	-0.519	44218.52844	V	-0.794
44217.52850	V	-0.519	44218.53053	V	-0.735
44217.53059	V	-0.544	44218.53261	V	-0.800
44217.53267	V	-0.567	44218.53469	V	-0.808
44217.53475	V	-0.564	44218.53677	V	-0.793
44217.53684	V	-0.596	44218.53886	V	-0.822
44217.53893	V	-0.609	44218.54094	V	-0.832
44217.54100	V	-0.627	44218.54302	V	-0.829
44217.54309	V	-0.642	44218.54511	V	-0.849
44217.54517	V	-0.654	44218.54719	V	-0.844
44217.54728	V	-0.667	44218.54927	V	-0.858
44217.54934	V	-0.684	44218.55136	V	-0.880
44217.55142	V	-0.699	44218.55344	V	-0.885
44217.55350	V	-0.713	44219.49505	V	-0.699
44217.55585	V	-0.737	44219.49713	V	-0.695
44217.55767	V	-0.747	44219.49921	V	-0.704
44217.55975	V	-0.750	44231.51443	V	-0.999
44217.56184	V	-0.772	44231.51652	V	-0.993
44217.56392	V	-0.795	44231.51860	V	-0.997
44217.56604	V	-0.802	44231.52068	V	-0.990

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44231.52277	V	-1.005	44240.56873	V	-0.974
44231.52493	V	-0.982	44240.57081	V	-0.985
44231.52693	V	-1.001	44240.57290	V	-0.996
44231.52901	V	-0.992	44240.57498	V	-0.971
44231.53110	V	-0.976	44240.57706	V	-0.989
44231.53318	V	-0.984	44240.57915	V	-0.975
44231.53526	V	-0.986	44240.58123	V	-0.982
44231.53735	V	-0.982	44254.50312	V	-1.024
44231.53943	V	-0.987	44254.50518	V	-0.994
44231.54153	V	-0.985	44254.50834	V	-0.987
44231.54360	V	-0.997	44254.50979	V	-0.993
44231.54568	V	-0.986	44254.51235	V	-1.013
44231.54776	V	-0.980	44254.51444	V	-0.996
44231.54985	V	-0.997	44254.51652	V	-0.986
44231.55193	V	-0.994	44254.51860	V	-1.004
44231.55401	V	-0.995	44254.52071	V	-1.028
44231.55610	V	-0.993	44254.52277	V	-1.012
44231.55818	V	-1.003	44254.52487	V	-0.996
44231.56026	V	-0.998	44254.52693	V	-1.003
44231.56235	V	-0.989	44254.52902	V	-1.014
44231.56443	V	-0.989	44254.53110	V	-1.012
44231.56651	V	-0.980	44254.53318	V	-1.010
44231.56860	V	-0.979	44254.53527	V	-1.001
44231.57068	V	-0.971	44254.53735	V	-0.999
44240.50207	V	-0.979	44254.53943	V	-1.008
44240.50416	V	-0.968	44254.54152	V	-1.010
44240.50623	V	-0.972	44254.54360	V	-0.993
44240.50832	V	-0.977	44254.54549	V	-1.052
44240.51040	V	-0.984	44254.54579	V	-1.060
44240.51248	V	-0.984	44255.50885	V	-0.975
44240.51457	V	-0.979	44255.51091	V	-0.976
44240.51665	V	-0.985	44255.51299	V	-0.959
44240.51873	V	-0.979	44255.51507	V	-0.966
44240.52082	V	-0.963	44255.51716	V	-0.964
44240.52290	V	-0.966	44255.51924	V	-0.943
44240.52501	V	-0.978	44255.52132	V	-0.963
44240.52707	V	-0.976	44255.52341	V	-0.935
44240.52915	V	-0.988	44255.52549	V	-0.952
44240.53123	V	-0.970	44255.52757	V	-0.942
44240.53337	V	-0.975	44255.52966	V	-0.941
44240.53547	V	-0.981	44255.53174	V	-0.950
44240.53748	V	-0.980	44255.53382	V	-0.947
44240.54165	V	-0.999	44255.53591	V	-0.941
44240.54379	V	-0.979	44255.53799	V	-0.938
44240.54581	V	-0.965	44255.54007	V	-0.960
44240.54790	V	-0.963	44255.54205	V	-0.944
44240.54998	V	-0.981	44255.54422	V	-0.912
44240.55206	V	-0.975	44255.54623	V	-0.913
44240.55415	V	-0.987	44259.50930	V	-0.935
44240.55623	V	-0.981	44259.51138	V	-0.953
44240.55831	V	-0.985	44259.51347	V	-0.952
44240.56040	V	-0.986	44259.51555	V	-0.947
44240.56248	V	-0.980	44259.51763	V	-0.946
44240.56455	V	-0.969	44259.51972	V	-0.955
44240.56665	V	-0.970	44259.52186	V	-0.957

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HELIO. J.D.	FILTER	V–C	HELIO. J.D.	FILTER	V–C
44259.52388	V	–0.967	44350.85125	V	–0.984
44259.52597	V	–0.956	44350.85343	V	–0.973
44259.52806	V	–0.880	44350.85559	V	–0.970
44259.53013	V	–0.974	44350.85781	V	–0.979
44259.53222	V	–0.957	44350.85982	V	–0.988
44259.53430	V	–0.963	44350.86162	V	–1.018
44259.53638	V	–0.958	44350.86381	V	–0.991
44259.53847	V	–0.954	44350.86592	V	–1.007
44259.54055	V	–0.944	44350.86799	V	–1.008
44259.54263	V	–0.944	44350.86999	V	–1.032
44259.54472	V	–0.938	44350.87180	V	–1.003
44259.54680	V	–0.947	44350.87567	V	–1.005
44259.54888	V	–0.955	44350.87819	V	–1.010
44259.55096	V	–0.936	44350.88003	V	–1.010
44259.55305	V	–0.931	44350.88210	V	–0.999
44259.55513	V	–0.943	44350.88416	V	–1.017
44259.55930	V	–0.933	44350.88606	V	–0.999
44259.56153	V	–0.930	44350.88821	V	–1.025
44259.56346	V	–0.942	44350.89034	V	–1.012
44259.56555	V	–0.946	44350.89221	V	–1.009
44259.56763	V	–0.920	44350.89426	V	–1.011
44259.56971	V	–0.940	44350.89672	V	–1.021
44259.57180	V	–0.924	44350.89925	V	–1.008
44260.51341	V	–1.012	44350.90175	V	–1.032
44260.51550	V	–1.004	44350.90424	V	–1.004
44260.51758	V	–1.011	44422.65540	V	–0.807
44260.51991	V	–1.020	44422.65749	V	–0.786
44260.52175	V	–0.994	44422.65957	V	–0.673
44260.52383	V	–1.000	44422.66165	V	–0.698
44260.52591	V	–1.007	44422.66374	V	–0.798
44260.52800	V	–0.980	44422.66582	V	–0.727
44260.53008	V	–0.596	44422.66791	V	–0.715
44260.53216	V	–1.025	44422.66999	V	–0.732
44260.53425	V	–1.042	44422.67206	V	–0.740
44260.53633	V	–1.013	44422.67416	V	–0.709
44260.53841	V	–0.991	44422.67623	V	–0.673
44260.54050	V	–1.005	44422.67832	V	–0.695
44260.54466	V	–0.994	44422.68041	V	–0.770
44260.54675	V	–0.990	44422.68249	V	–0.696
44260.54883	V	–1.116	44422.68457	V	–0.698
44260.55095	V	–1.163	44422.68666	V	–0.703
44260.55300	V	–1.061	44422.68874	V	–0.670
44260.55508	V	–0.976	44422.69291	V	–0.660
44260.55716	V	–0.993	44422.69499	V	–0.693
44340.88840	V	–1.049	44422.69707	V	–0.712
44340.89095	V	–1.016	44422.69917	V	–0.680
44340.89350	V	–1.010	44422.70131	V	–0.729
44340.89600	V	–1.026	44422.70332	V	–0.682
44340.89863	V	–1.021	44422.70541	V	–0.681
44340.90123	V	–1.008	44422.70749	V	–0.686
44340.90472	V	–1.049	44422.70957	V	–0.671
44340.90770	V	–1.053	44422.71167	V	–0.675
44340.91004	V	–1.011	44422.71374	V	–0.690
44340.91316	V	–1.006	44422.71582	V	–0.703
44340.91631	V	–1.024	44422.71791	V	–0.675

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44442.59741	V	-0.664	44442.70993	V	-0.943
44442.59949	V	-0.668	44442.71201	V	-0.946
44442.60158	V	-0.664	44442.71408	V	-0.941
44442.60366	V	-0.688	44442.71616	V	-0.947
44442.60574	V	-0.694	44442.71825	V	-0.936
44442.60783	V	-0.681	44442.72033	V	-0.939
44442.60991	V	-0.693	44442.72243	V	-0.945
44442.61199	V	-0.706	44442.72450	V	-0.950
44442.61408	V	-0.709	44442.72658	V	-0.952
44442.61618	V	-0.728	44442.72867	V	-0.952
44442.61824	V	-0.716	44442.73075	V	-0.945
44442.62033	V	-0.734	44442.73283	V	-0.935
44442.62241	V	-0.736	44442.73492	V	-0.946
44442.62449	V	-0.736	44442.73720	V	-0.945
44442.62658	V	-0.749	44442.73908	V	-0.947
44442.62867	V	-0.750	44442.74117	V	-0.950
44442.63074	V	-0.767	44442.74325	V	-0.942
44442.63283	V	-0.777	44442.74533	V	-0.936
44442.63491	V	-0.788	44442.74742	V	-0.949
44442.63699	V	-0.787	44442.74950	V	-0.949
44442.63908	V	-0.796	44442.75158	V	-0.962
44442.64116	V	-0.809	44442.75367	V	-0.963
44442.64324	V	-0.807	44442.75575	V	-0.950
44442.64533	V	-0.816	44442.75783	V	-0.958
44442.64741	V	-0.831	44442.75992	V	-0.952
44442.64949	V	-0.837	44442.76200	V	-0.954
44442.65158	V	-0.840	44442.76408	V	-0.950
44442.65366	V	-0.843	44442.76617	V	-0.946
44442.65574	V	-0.846	44442.76825	V	-0.946
44442.65783	V	-0.866	44442.77033	V	-0.952
44442.65991	V	-0.869	44442.77246	V	-0.957
44442.66201	V	-0.865	44442.77450	V	-0.955
44442.66409	V	-0.870	44442.77658	V	-0.965
44442.66616	V	-0.872	44442.77868	V	-0.968
44442.66825	V	-0.889	44442.78076	V	-0.955
44442.67033	V	-0.891	44442.78283	V	-0.950
44442.67246	V	-0.895	44442.78492	V	-0.953
44442.67450	V	-0.900	44442.78704	V	-0.966
44442.67658	V	-0.900	44442.78913	V	-0.962
44442.67866	V	-0.912	44442.79117	V	-0.957
44442.68075	V	-0.910	44442.79326	V	-0.958
44442.68283	V	-0.916	44442.79534	V	-0.954
44442.68491	V	-0.915	44442.79742	V	-0.952
44442.68700	V	-0.916	44442.79950	V	-0.949
44442.68908	V	-0.917	44442.80157	V	-0.946
44442.69116	V	-0.924	44442.80575	V	-0.965
44442.69325	V	-0.918	44442.80784	V	-0.957
44442.69533	V	-0.924	44442.80992	V	-0.970
44442.69741	V	-0.934	44442.81200	V	-0.967
44442.69950	V	-0.951	44442.81624	V	-0.961
44442.70158	V	-0.937	44442.81825	V	-0.952
44442.70366	V	-0.905	44442.82035	V	-0.962
44442.70387	V	-0.928	44442.82242	V	-0.953
44442.70574	V	-0.944	44442.82456	V	-0.953
44442.70783	V	-0.953	44442.82659	V	-0.966

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44442.82869	V	-0.962	44148.67576	B	-1.059
44442.83075	V	-0.961	44148.67782	B	-1.069
44442.83315	V	-0.958	44148.68199	B	-1.061
44442.83497	V	-0.967	44148.68407	B	-1.072
44442.83700	V	-0.959	44148.68615	B	-1.064
44442.83919	V	-0.966	44148.68824	B	-1.060
44442.84117	V	-0.961	44148.69033	B	-1.092
44442.84534	V	-0.977	44148.69239	B	-1.084
44442.84742	V	-0.974	44148.69449	B	-1.075
44442.84950	V	-0.969	44148.69657	B	-1.076
44442.85159	V	-0.959	44148.69864	B	-1.072
44442.85367	V	-0.977	44148.70072	B	-1.054
44442.85577	V	-0.968	44148.70283	B	-1.068
44442.85784	V	-0.968	44148.70491	B	-1.054
44442.85993	V	-0.967	44148.70699	B	-1.059
44442.86201	V	-0.968	44148.70907	B	-1.062
44442.86425	V	-0.971	44148.71114	B	-1.060
44442.86617	V	-0.975	44148.71324	B	-1.056
44442.86826	V	-0.977	44148.71532	B	-1.046
44442.87034	V	-0.963	44148.71740	B	-1.058
44442.87262	V	-0.972	44148.72157	B	-1.038
44442.87451	V	-0.977	44148.72373	B	-1.054
44442.87660	V	-0.974	44148.72784	B	-1.046
44442.87867	V	-0.958	44148.72991	B	-1.053
44442.88076	V	-0.968	44148.73199	B	-1.065
44442.88284	V	-0.979	44148.73407	B	-1.062
44442.88492	V	-0.985	44148.73616	B	-1.053
44148.58988	B	-1.067	44148.73825	B	-1.054
44148.61208	B	-1.066	44148.74031	B	-1.055
44148.61816	B	-1.067	44148.74240	B	-1.031
44148.62157	B	-1.066	44148.74424	B	-1.051
44148.62365	B	-1.074	44148.74658	B	-1.050
44148.62574	B	-1.065	44148.74867	B	-1.043
44148.62782	B	-1.066	44148.75072	B	-1.045
44148.62990	B	-1.071	44148.75283	B	-1.052
44148.63199	B	-1.057	44148.75490	B	-1.059
44148.63406	B	-1.069	44148.75698	B	-1.047
44148.63647	B	-1.072	44148.75906	B	-1.058
44148.64032	B	-1.066	44148.76114	B	-1.041
44148.64240	B	-1.069	44148.76323	B	-1.054
44148.64449	B	-1.073	44148.76532	B	-1.018
44148.64659	B	-1.056	44148.76740	B	-1.036
44148.64865	B	-1.072	44148.76948	B	-1.044
44148.65074	B	-1.067	44148.77024	B	-0.947
44148.65282	B	-1.070	44148.77712	B	-1.023
44148.65490	B	-1.073	44148.77923	B	-1.040
44148.65701	B	-1.070	44148.78131	B	-1.040
44148.65907	B	-1.067	44148.78267	B	-1.125
44148.66115	B	-1.065	44148.78338	B	-1.018
44148.66324	B	-1.062	44148.78547	B	-1.020
44148.66532	B	-1.068	44148.78966	B	-0.980
44148.66741	B	-1.068	44148.79175	B	-1.070
44148.66949	B	-1.081	44148.79384	B	-1.067
44148.67158	B	-1.067	44148.79564	B	-1.076
44148.67364	B	-1.043	44148.79777	B	-1.104

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44148.80189	B	-1.063	44149.61810	B	-1.028
44148.80421	B	-1.037	44149.62017	B	-1.012
44148.80631	B	-1.008	44149.62226	B	-1.022
44148.80844	B	-1.019	44149.62433	B	-1.026
44148.81049	B	-1.021	44149.62641	B	-1.030
44148.81259	B	-1.034	44149.62849	B	-1.041
44148.81439	B	-1.015	44149.63058	B	-1.035
44148.81685	B	-1.025	44149.63267	B	-1.028
44148.81886	B	-1.021	44149.63476	B	-1.007
44148.82092	B	-1.020	44149.63686	B	-1.013
44148.82301	B	-1.014	44149.63891	B	-1.015
44148.82510	B	-1.029	44149.64100	B	-1.001
44148.82719	B	-1.025	44149.64308	B	-1.027
44149.53057	B	-1.018	44149.64517	B	-1.034
44149.53266	B	-0.992	44149.64725	B	-1.021
44149.53474	B	-1.037	44149.64933	B	-1.015
44149.53684	B	-1.022	44149.65142	B	-1.012
44149.53891	B	-1.035	44149.65350	B	-1.022
44149.54100	B	-0.995	44149.65558	B	-1.019
44149.54307	B	-0.998	44149.65767	B	-1.033
44149.54516	B	-0.951	44149.65975	B	-1.017
44149.54724	B	-1.057	44149.66183	B	-1.034
44149.54932	B	-1.052	44149.66392	B	-1.014
44149.55141	B	-1.034	44149.66600	B	-1.003
44149.55349	B	-1.002	44149.66810	B	-1.038
44149.55557	B	-1.011	44149.67017	B	-1.008
44149.55767	B	-0.989	44149.67225	B	-1.025
44149.55905	B	-1.032	44149.67433	B	-1.039
44149.55975	B	-0.995	44149.67642	B	-1.033
44149.56182	B	-1.023	44149.67850	B	-1.043
44149.56392	B	-1.016	44149.68058	B	-1.046
44149.56807	B	-1.004	44149.68267	B	-1.052
44149.57017	B	-1.018	44149.68475	B	-1.032
44149.57223	B	-1.054	44149.68683	B	-1.035
44149.57434	B	-1.019	44149.68892	B	-1.021
44149.57642	B	-1.016	44149.69100	B	-1.014
44149.57849	B	-0.999	44149.69308	B	-1.008
44149.58057	B	-1.002	44149.69518	B	-0.964
44149.58278	B	-1.027	44149.70142	B	-1.033
44149.58475	B	-1.032	44149.70350	B	-1.065
44149.58685	B	-1.022	44149.70558	B	-1.038
44149.58891	B	-1.013	44149.70768	B	-0.996
44149.59099	B	-1.009	44149.71006	B	-1.064
44149.59307	B	-1.026	44149.71186	B	-1.083
44149.59516	B	-1.005	44149.71411	B	-1.065
44149.59725	B	-1.002	44149.71812	B	-1.027
44149.59934	B	-1.036	44149.72017	B	-1.036
44149.60142	B	-1.032	44149.72225	B	-1.089
44149.60349	B	-1.014	44149.72433	B	-1.059
44149.60557	B	-1.008	44149.72643	B	-0.935
44149.60767	B	-1.033	44149.72850	B	-1.029
44149.60974	B	-1.034	44149.73058	B	-1.029
44149.61186	B	-1.068	44149.73267	B	-1.028
44149.61391	B	-1.048	44149.73267	B	-1.028
44149.61601	B	-1.027	44149.73475	B	-1.022

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44149.73683	B	-1.042	44153.62115	B	-1.017
44149.73892	B	-1.019	44153.62323	B	-1.027
44149.74103	B	-1.037	44153.62531	B	-1.029
44149.74312	B	-1.054	44153.62759	B	-1.038
44149.74515	B	-0.999	44153.62952	B	-1.031
44149.74725	B	-1.066	44153.63158	B	-1.024
44149.74933	B	-1.054	44153.63365	B	-1.027
44149.75142	B	-1.037	44153.63573	B	-1.018
44149.75349	B	-1.040	44153.63788	B	-1.021
44149.75558	B	-1.012	44153.63999	B	-1.018
44149.75767	B	-1.024	44153.64198	B	-1.062
44149.75975	B	-1.058	44153.64406	B	-1.058
44149.76188	B	-1.099	44153.64615	B	-1.026
44149.76392	B	-1.059	44153.64823	B	-1.030
44149.76600	B	-1.009	44153.65033	B	-1.055
44153.53780	B	-1.023	44153.65240	B	-1.057
44153.53990	B	-1.017	44153.65449	B	-1.028
44153.54198	B	-1.014	44153.65656	B	-1.026
44153.54407	B	-1.023	44153.65866	B	-1.051
44153.54615	B	-1.024	44153.66073	B	-1.037
44153.54823	B	-1.029	44153.66281	B	-1.039
44153.55058	B	-1.022	44153.66490	B	-1.028
44153.55242	B	-1.027	44153.66698	B	-1.032
44153.55448	B	-1.023	44153.66906	B	-1.043
44153.55657	B	-1.023	44153.67115	B	-1.040
44153.55865	B	-1.017	44153.67328	B	-1.018
44153.56073	B	-1.021	44153.67531	B	-1.021
44153.56282	B	-1.016	44153.67740	B	-1.048
44153.56490	B	-1.016	44153.67948	B	-1.037
44153.56699	B	-1.018	44153.68157	B	-1.030
44153.56908	B	-1.023	44153.68365	B	-1.030
44153.57115	B	-1.024	44153.68573	B	-1.041
44153.57323	B	-1.028	44153.68781	B	-1.029
44153.57532	B	-1.022	44153.68990	B	-1.016
44153.57740	B	-1.031	44153.69198	B	-1.025
44153.57948	B	-1.028	44153.69406	B	-1.031
44153.58160	B	-1.024	44153.69823	B	-1.029
44153.58378	B	-1.015	44153.70031	B	-1.040
44153.58574	B	-1.025	44153.70240	B	-1.046
44153.58784	B	-1.027	44153.70448	B	-1.038
44153.58990	B	-1.023	44153.70656	B	-1.037
44153.59198	B	-1.024	44153.70865	B	-1.024
44153.59406	B	-1.020	44153.71073	B	-1.045
44153.59615	B	-1.020	44153.71281	B	-1.027
44153.59824	B	-1.024	44153.71490	B	-1.042
44153.60030	B	-1.018	44153.71698	B	-1.040
44153.60240	B	-1.022	44153.71906	B	-1.039
44153.60448	B	-1.021	44153.72115	B	-1.031
44153.60656	B	-1.024	44153.72323	B	-1.031
44153.60864	B	-1.024	44153.72531	B	-1.037
44153.61073	B	-1.025	44153.72740	B	-1.037
44153.61291	B	-1.022	44153.72948	B	-1.031
44153.61490	B	-1.037	44153.73155	B	-1.034
44153.61698	B	-1.016	44153.73366	B	-1.034
44153.61906	B	-1.032	44153.73573	B	-1.043

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44153.73781	B	-1.040	44171.65296	B	-0.989
44153.73990	B	-1.043	44171.65504	B	-0.996
44153.74198	B	-1.058	44171.65713	B	-0.984
44153.74406	B	-1.028	44171.65921	B	-0.979
44153.74616	B	-1.045	44171.66129	B	-0.980
44153.74823	B	-1.023	44171.66340	B	-0.987
44153.75031	B	-1.038	44171.66547	B	-0.984
44153.75240	B	-1.029	44171.66754	B	-0.990
44153.75448	B	-1.039	44171.66963	B	-1.001
44153.75656	B	-1.028	44171.67171	B	-0.992
44153.75868	B	-1.049	44171.67392	B	-0.974
44153.76073	B	-1.033	44171.67589	B	-0.985
44153.76281	B	-1.030	44171.67796	B	-0.988
44153.76490	B	-1.016	44171.68005	B	-0.999
44153.76698	B	-1.040	44171.68213	B	-0.995
44153.76906	B	-1.044	44171.68421	B	-0.988
44153.77117	B	-1.046	44171.68629	B	-0.983
44153.77323	B	-1.034	44171.68839	B	-0.992
44153.77532	B	-1.032	44171.69058	B	-0.990
44153.77739	B	-1.032	44171.69267	B	-0.975
44153.77948	B	-1.026	44171.69463	B	-0.993
44153.78156	B	-1.028	44171.69671	B	-0.982
44153.78364	B	-1.039	44171.69879	B	-0.996
44153.78573	B	-1.031	44171.70089	B	-0.997
44153.78781	B	-1.036	44171.70296	B	-0.966
44153.78989	B	-1.040	44171.70523	B	-0.970
44153.79198	B	-1.048	44171.70738	B	-0.973
44153.79406	B	-1.051	44171.70921	B	-0.982
44153.79616	B	-1.051	44171.71129	B	-0.990
44153.79827	B	-1.030	44171.71338	B	-0.963
44153.80035	B	-1.013	44177.62496	B	-1.001
44153.80239	B	-1.024	44177.62715	B	-0.997
44153.80447	B	-1.033	44177.62912	B	-0.988
44171.60296	B	-1.007	44177.63121	B	-0.993
44171.60458	B	-0.988	44177.63329	B	-0.993
44171.60643	B	-0.981	44177.63542	B	-0.999
44171.60852	B	-0.993	44177.63746	B	-1.010
44171.61339	B	-0.987	44177.63954	B	-0.993
44171.61546	B	-0.995	44177.64173	B	-0.982
44171.61755	B	-0.997	44177.64371	B	-1.008
44171.62171	B	-0.991	44177.64579	B	-1.015
44171.62380	B	-0.994	44177.64787	B	-0.989
44171.62589	B	-0.987	44177.64999	B	-0.996
44171.62796	B	-0.994	44177.65207	B	-0.996
44171.63005	B	-0.993	44177.65621	B	-0.993
44171.63217	B	-0.984	44177.65829	B	-0.994
44171.63421	B	-0.993	44177.66037	B	-0.974
44171.63629	B	-0.987	44177.66246	B	-0.960
44171.63838	B	-0.986	44177.66456	B	-0.958
44171.64046	B	-0.988	44177.66662	B	-0.952
44171.64231	B	-0.991	44177.66872	B	-0.954
44171.64463	B	-0.996	44177.67079	B	-0.944
44171.64671	B	-0.982	44177.67288	B	-0.927
44171.64879	B	-0.988	44177.67496	B	-0.931
44171.65088	B	-0.988	44177.67704	B	-0.913

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44177.67915	B	-0.912	44192.56952	B	-0.940
44177.68121	B	-0.889	44192.57188	B	-0.939
44177.68329	B	-0.870	44192.57391	B	-0.935
44177.68540	B	-0.858	44192.57601	B	-0.931
44177.68746	B	-0.856	44192.57809	B	-0.927
44177.68954	B	-0.849	44192.58019	B	-0.913
44177.69162	B	-0.819	44192.58227	B	-0.933
44177.69371	B	-0.810	44192.58434	B	-0.930
44177.69579	B	-0.789	44192.58649	B	-0.896
44177.69787	B	-0.777	44192.58850	B	-0.888
44177.69995	B	-0.780	44192.59059	B	-0.905
44177.70219	B	-0.750	44192.59267	B	-0.871
44177.70414	B	-0.733	44192.59477	B	-0.869
44177.70626	B	-0.713	44192.59684	B	-0.872
44177.70829	B	-0.694	44192.59892	B	-0.867
44177.71037	B	-0.692	44192.60100	B	-0.868
44177.71245	B	-0.662	44192.60309	B	-0.859
44177.71455	B	-0.645	44192.60517	B	-0.864
44177.71662	B	-0.618	44192.60727	B	-0.835
44177.71870	B	-0.614	44192.60934	B	-0.828
44177.72079	B	-0.592	44192.61142	B	-0.817
44177.72287	B	-0.553	44192.61350	B	-0.817
44177.72495	B	-0.522	44192.61559	B	-0.822
44177.72704	B	-0.518	44192.61767	B	-0.805
44177.72912	B	-0.511	44192.61975	B	-0.796
44177.73120	B	-0.520	44192.62184	B	-0.804
44177.73329	B	-0.477	44192.62392	B	-0.806
44192.50732	B	-1.000	44192.62600	B	-0.799
44192.50934	B	-1.003	44192.62809	B	-0.797
44192.51351	B	-1.004	44192.63018	B	-0.796
44192.51559	B	-1.004	44192.63225	B	-0.804
44192.51771	B	-1.008	44192.63434	B	-0.794
44192.51976	B	-0.995	44192.63642	B	-0.778
44192.52184	B	-1.000	44192.63850	B	-0.772
44192.52392	B	-0.986	44192.64059	B	-0.767
44192.52814	B	-0.994	44192.64267	B	-0.777
44192.53017	B	-0.990	44192.64476	B	-0.757
44192.53226	B	-0.985	44192.64683	B	-0.749
44192.53434	B	-0.983	44192.64892	B	-0.759
44192.53642	B	-0.985	44192.65077	B	-0.760
44192.53851	B	-0.984	44192.65312	B	-0.749
44192.54059	B	-0.981	44192.65517	B	-0.742
44192.54269	B	-0.988	44192.65725	B	-0.758
44192.54476	B	-0.983	44192.65933	B	-0.763
44192.54661	B	-0.980	44192.66142	B	-0.741
44192.54892	B	-0.968	44192.66355	B	-0.739
44192.55101	B	-0.974	44192.66558	B	-0.729
44192.55309	B	-0.967	44192.66767	B	-0.739
44192.55517	B	-0.963	44192.66975	B	-0.734
44192.55727	B	-0.954	44192.67189	B	-0.741
44192.55934	B	-0.966	44192.67393	B	-0.732
44192.56142	B	-0.951	44192.67606	B	-0.724
44192.56351	B	-0.950	44192.67808	B	-0.726
44192.56559	B	-0.955	44192.68017	B	-0.744
44192.56768	B	-0.953	44192.68225	B	-0.741

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44192.68436	B	-0.731	44198.59225	B	-0.766
44192.68642	B	-0.733	44198.59435	B	-0.754
44192.68850	B	-0.719	44198.59644	B	-0.756
44192.69058	B	-0.737	44198.59851	B	-0.761
44192.69267	B	-0.712	44198.60060	B	-0.765
44192.69683	B	-0.721	44198.60268	B	-0.757
44192.69892	B	-0.744	44198.60485	B	-0.757
44192.70101	B	-0.718	44198.60685	B	-0.753
44192.70308	B	-0.731	44198.60893	B	-0.753
44192.70520	B	-0.721	44198.61101	B	-0.738
44192.70725	B	-0.723	44198.61314	B	-0.738
44192.70931	B	-0.726	44198.61518	B	-0.737
44192.71141	B	-0.735	44198.61726	B	-0.741
44194.64734	B	-0.742	44198.61935	B	-0.743
44194.64942	B	-0.754	44198.62144	B	-0.737
44194.65150	B	-0.748	44198.62351	B	-0.744
44194.65567	B	-0.747	44198.62560	B	-0.750
44194.65777	B	-0.743	44198.62768	B	-0.740
44194.65984	B	-0.747	44198.62976	B	-0.740
44194.66192	B	-0.751	44198.63185	B	-0.744
44194.66400	B	-0.740	44198.63393	B	-0.733
44194.66609	B	-0.724	44198.63601	B	-0.742
44194.66817	B	-0.741	44198.63811	B	-0.722
44194.67025	B	-0.740	44198.63995	B	-0.739
44194.67235	B	-0.738	44198.64226	B	-0.743
44194.67442	B	-0.730	44198.64435	B	-0.734
44194.67650	B	-0.738	44198.64644	B	-0.745
44194.67859	B	-0.733	44198.64850	B	-0.729
44194.68067	B	-0.719	44198.65247	B	-0.698
44194.68275	B	-0.735	44198.65476	B	-0.722
44194.68484	B	-0.728	44198.65684	B	-0.736
44194.68692	B	-0.720	44198.65870	B	-0.739
44194.68901	B	-0.725	44204.53637	B	-0.732
44194.69109	B	-0.725	44204.53846	B	-0.716
44194.69317	B	-0.738	44204.54053	B	-0.719
44194.69525	B	-0.715	44204.54262	B	-0.719
44194.69710	B	-0.720	44204.54471	B	-0.720
44194.69942	B	-0.733	44204.54679	B	-0.709
44194.70150	B	-0.733	44204.54887	B	-0.705
44194.70359	B	-0.732	44204.55096	B	-0.705
44194.70567	B	-0.729	44204.55304	B	-0.709
44194.70775	B	-0.727	44204.55512	B	-0.715
44194.70984	B	-0.744	44204.55721	B	-0.713
44194.71192	B	-0.754	44204.55929	B	-0.703
44194.71400	B	-0.729	44204.56138	B	-0.707
44194.71608	B	-0.752	44204.56346	B	-0.711
44198.57143	B	-0.803	44204.56554	B	-0.712
44198.57352	B	-0.783	44204.56762	B	-0.713
44198.57560	B	-0.791	44204.56971	B	-0.709
44198.57768	B	-0.781	44204.57159	B	-0.704
44198.57977	B	-0.773	44204.57376	B	-0.711
44198.58190	B	-0.779	44204.57597	B	-0.702
44198.58602	B	-0.770	44204.57803	B	-0.704
44198.58810	B	-0.773	44204.58012	B	-0.704
44198.59018	B	-0.775	44204.58224	B	-0.712

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44204.58429	B	-0.705	44217.53290	B	-0.529
44204.58637	B	-0.706	44217.53498	B	-0.540
44204.58845	B	-0.707	44217.53707	B	-0.574
44204.59054	B	-0.710	44217.53915	B	-0.571
44204.59262	B	-0.714	44217.54123	B	-0.602
44204.59470	B	-0.714	44217.54334	B	-0.624
44204.59679	B	-0.699	44217.54540	B	-0.644
44204.59887	B	-0.701	44217.54751	B	-0.657
44204.60095	B	-0.710	44217.54957	B	-0.670
44204.60304	B	-0.709	44217.55165	B	-0.688
44204.60520	B	-0.713	44217.55373	B	-0.703
44204.60727	B	-0.714	44217.55606	B	-0.732
44204.60930	B	-0.714	44217.55790	B	-0.745
44204.61137	B	-0.713	44217.55998	B	-0.763
44204.61350	B	-0.723	44217.56207	B	-0.781
44204.61554	B	-0.719	44217.56415	B	-0.788
44204.61762	B	-0.715	44217.56623	B	-0.806
44204.61970	B	-0.720	44217.56832	B	-0.839
44204.62179	B	-0.724	44217.57041	B	-0.855
44204.62387	B	-0.731	44217.57248	B	-0.871
44204.62595	B	-0.730	44217.57457	B	-0.864
44204.62804	B	-0.742	44217.57665	B	-0.882
44204.63012	B	-0.743	44217.57873	B	-0.901
44204.63220	B	-0.751	44217.58082	B	-0.910
44204.63429	B	-0.761	44217.58290	B	-0.931
44204.63637	B	-0.762	44217.58498	B	-0.935
44204.63845	B	-0.767	44217.58707	B	-0.962
44204.64053	B	-0.773	44217.58915	B	-0.958
44204.64261	B	-0.775	44217.59123	B	-0.960
44204.64469	B	-0.787	44217.59331	B	-0.969
44204.64678	B	-0.783	44217.59540	B	-0.988
44204.64887	B	-0.785	44217.59748	B	-1.002
44204.65096	B	-0.798	44217.59956	B	-0.999
44204.65306	B	-0.804	44217.60165	B	-1.000
44204.65512	B	-0.812	44217.60373	B	-1.025
44204.65720	B	-0.813	44217.60581	B	-0.995
44204.65928	B	-0.815	44217.60790	B	-1.020
44204.66137	B	-0.837	44217.60998	B	-1.056
44204.66346	B	-0.824	44217.61206	B	-1.088
44204.66553	B	-0.835	44218.50159	B	-0.780
44204.66762	B	-0.843	44218.50367	B	-0.783
44204.66970	B	-0.847	44218.50576	B	-0.770
44204.67178	B	-0.855	44218.50789	B	-0.790
44204.67387	B	-0.854	44218.50992	B	-0.788
44204.67595	B	-0.853	44218.51201	B	-0.806
44204.67803	B	-0.869	44218.51410	B	-0.796
44217.51415	B	-0.383	44218.51622	B	-0.813
44217.51624	B	-0.368	44218.51826	B	-0.848
44217.51832	B	-0.401	44218.52034	B	-0.817
44217.52040	B	-0.395	44218.52242	B	-0.847
44217.52250	B	-0.442	44218.52451	B	-0.802
44217.52457	B	-0.451	44218.52659	B	-0.814
44217.52665	B	-0.479	44218.52867	B	-0.844
44217.52874	B	-0.483	44218.53076	B	-0.780
44217.53082	B	-0.503	44218.53284	B	-0.876

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44218.53492	B	-0.879	44240.53146	B	-1.021
44218.53701	B	-0.854	44240.53356	B	-1.007
44218.53909	B	-0.871	44240.53565	B	-1.001
44218.54117	B	-0.890	44240.53771	B	-1.021
44218.54326	B	-0.891	44240.54188	B	-1.030
44218.54534	B	-0.912	44240.54401	B	-1.035
44218.54742	B	-0.892	44240.54605	B	-1.035
44218.54951	B	-0.912	44240.54813	B	-1.011
44218.55159	B	-0.930	44240.55021	B	-1.017
44218.55367	B	-0.936	44240.55230	B	-0.995
44219.49528	B	-0.757	44240.55438	B	-1.018
44219.49736	B	-0.775	44240.55646	B	-1.014
44219.49945	B	-0.753	44240.55855	B	-1.013
44231.51466	B	-1.032	44240.56063	B	-1.015
44231.51675	B	-1.032	44240.56271	B	-1.004
44231.51883	B	-1.032	44240.56480	B	-1.010
44231.52091	B	-1.028	44240.56688	B	-0.999
44231.52300	B	-1.052	44240.56896	B	-1.010
44231.52517	B	-1.029	44240.57104	B	-1.026
44231.52716	B	-1.033	44240.57313	B	-1.013
44231.52925	B	-1.036	44240.57521	B	-1.000
44231.53133	B	-1.034	44240.57729	B	-1.002
44231.53341	B	-1.027	44240.57938	B	-1.005
44231.53550	B	-0.955	44240.58147	B	-1.013
44231.53758	B	-1.029	44254.50335	B	-1.046
44231.53965	B	-1.031	44254.50538	B	-1.041
44231.54175	B	-1.025	44254.50856	B	-1.045
44231.54383	B	-1.036	44254.51003	B	-1.047
44231.54591	B	-1.035	44254.51256	B	-1.045
44231.54800	B	-1.031	44254.51465	B	-1.025
44231.55008	B	-1.037	44254.51675	B	-1.030
44231.55216	B	-1.037	44254.51883	B	-1.035
44231.55424	B	-1.037	44254.52093	B	-1.041
44231.55633	B	-1.034	44254.52300	B	-1.032
44231.55841	B	-1.053	44254.52509	B	-1.041
44231.56051	B	-1.037	44254.52717	B	-1.045
44231.56259	B	-1.012	44254.52925	B	-1.036
44231.56466	B	-1.028	44254.53137	B	-1.035
44231.56674	B	-1.039	44254.53339	B	-1.035
44231.56883	B	-1.027	44254.53550	B	-1.040
44231.57091	B	-1.021	44254.53758	B	-1.022
44240.50230	B	-1.007	44254.53967	B	-1.027
44240.50438	B	-1.000	44254.54177	B	-1.030
44240.50647	B	-1.007	44254.54383	B	-1.005
44240.50855	B	-1.006	44254.54601	B	-1.063
44240.51063	B	-1.025	44255.50906	B	-0.986
44240.51272	B	-1.022	44255.51114	B	-1.009
44240.51480	B	-1.027	44255.51322	B	-1.008
44240.51688	B	-1.032	44255.51531	B	-0.998
44240.51896	B	-1.019	44255.51739	B	-0.983
44240.52105	B	-1.018	44255.51947	B	-0.990
44240.52313	B	-1.009	44255.52154	B	-1.005
44240.52523	B	-1.020	44255.52364	B	-0.967
44240.52730	B	-1.017	44255.52573	B	-0.964
44240.52938	B	-1.017	44255.52780	B	-0.986

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44255.52989	B	-0.958	44260.54698	B	-0.996
44255.53197	B	-0.985	44260.54906	B	-1.044
44255.53405	B	-0.984	44260.55117	B	-1.060
44255.53614	B	-0.969	44260.55323	B	-1.036
44255.53822	B	-0.955	44260.55531	B	-1.027
44255.54030	B	-0.973	44260.55739	B	-1.023
44255.54229	B	-0.969	44340.88866	B	-1.090
44255.54444	B	-0.956	44340.89123	B	-1.061
44255.54646	B	-0.948	44340.89378	B	-1.068
44259.50953	B	-0.992	44340.89625	B	-1.087
44259.51162	B	-0.998	44340.89891	B	-1.057
44259.51370	B	-0.998	44340.90152	B	-1.053
44259.51578	B	-0.985	44340.90499	B	-1.085
44259.51786	B	-0.977	44340.90796	B	-1.079
44259.51995	B	-1.000	44340.91031	B	-1.048
44259.52207	B	-0.990	44340.91351	B	-1.061
44259.52411	B	-0.997	44340.91657	B	-1.083
44259.52621	B	-0.989	44350.85151	B	-1.027
44259.52829	B	-0.966	44350.85374	B	-1.014
44259.53036	B	-0.979	44350.85587	B	-1.029
44259.53245	B	-0.983	44350.85809	B	-1.034
44259.53453	B	-0.987	44350.86008	B	-1.029
44259.53661	B	-0.971	44350.86189	B	-1.045
44259.53870	B	-0.973	44350.86408	B	-1.022
44259.54078	B	-0.980	44350.86618	B	-1.040
44259.54286	B	-0.984	44350.86828	B	-1.039
44259.54496	B	-0.956	44350.87026	B	-1.051
44259.54703	B	-0.963	44350.87206	B	-1.033
44259.54911	B	-0.966	44350.87400	B	-1.031
44259.55120	B	-0.967	44350.87594	B	-1.037
44259.55328	B	-0.956	44350.87845	B	-1.039
44259.55536	B	-0.954	44350.88030	B	-1.050
44259.55745	B	-0.969	44350.88238	B	-1.032
44259.55953	B	-0.954	44350.88442	B	-1.046
44259.56172	B	-0.969	44350.88632	B	-1.049
44259.56370	B	-0.942	44350.88848	B	-1.063
44259.56578	B	-0.954	44350.89061	B	-1.047
44259.56786	B	-0.921	44350.89249	B	-1.060
44259.56995	B	-0.948	44350.89453	B	-1.031
44259.57203	B	-0.953	44350.89698	B	-1.049
44260.51365	B	-1.046	44350.89952	B	-1.046
44260.51572	B	-1.039	44350.90202	B	-1.071
44260.51781	B	-1.047	44350.90451	B	-1.040
44260.52011	B	-1.038	44422.65564	B	-0.860
44260.52198	B	-1.037	44422.65772	B	-0.862
44260.52406	B	-1.030	44422.65985	B	-0.779
44260.52614	B	-1.026	44422.66189	B	-0.768
44260.52823	B	-1.044	44422.66397	B	-0.940
44260.53031	B	-0.679	44422.66605	B	-0.701
44260.53242	B	-1.033	44422.66814	B	-0.767
44260.53449	B	-1.042	44422.67022	B	-0.717
44260.53654	B	-1.053	44422.67230	B	-0.815
44260.53864	B	-1.002	44422.67439	B	-0.837
44260.54073	B	-1.023	44422.67646	B	-0.757
44260.54489	B	-1.048	44422.67855	B	-0.707

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44422.68064	B	-0.784	44442.67473	B	-0.934
44422.68272	B	-0.684	44442.67681	B	-0.940
44422.68480	B	-0.723	44442.67889	B	-0.940
44422.68689	B	-0.773	44442.68098	B	-0.945
44422.68899	B	-0.741	44442.68306	B	-0.953
44422.69314	B	-0.637	44442.68514	B	-0.954
44422.69522	B	-0.729	44442.68723	B	-0.959
44422.69730	B	-0.771	44442.68931	B	-0.961
44422.69939	B	-0.736	44442.69139	B	-0.950
44422.70152	B	-0.755	44442.69348	B	-0.957
44422.70356	B	-0.765	44442.69556	B	-0.966
44422.70564	B	-0.745	44442.69768	B	-0.969
44422.70772	B	-0.729	44442.70182	B	-0.964
44422.70981	B	-0.724	44442.70407	B	-0.964
44422.71197	B	-0.747	44442.70598	B	-0.979
44422.71397	B	-0.744	44442.70806	B	-0.982
44422.71608	B	-0.792	44442.71015	B	-0.978
44422.71816	B	-0.691	44442.71224	B	-0.982
44442.59764	B	-0.734	44442.71431	B	-0.983
44442.59972	B	-0.720	44442.71640	B	-0.980
44442.60181	B	-0.735	44442.71848	B	-0.981
44442.60389	B	-0.731	44442.72056	B	-0.977
44442.60597	B	-0.734	44442.72263	B	-0.984
44442.60806	B	-0.752	44442.72473	B	-0.988
44442.61014	B	-0.757	44442.72687	B	-0.989
44442.61222	B	-0.762	44442.72890	B	-0.981
44442.61431	B	-0.765	44442.73098	B	-0.978
44442.61640	B	-0.761	44442.73306	B	-0.986
44442.61847	B	-0.788	44442.73515	B	-0.993
44442.62056	B	-0.780	44442.73738	B	-0.982
44442.62265	B	-0.785	44442.73931	B	-0.978
44442.62472	B	-0.786	44442.74140	B	-0.984
44442.62681	B	-0.799	44442.74348	B	-0.984
44442.62890	B	-0.799	44442.74556	B	-0.983
44442.63098	B	-0.815	44442.74765	B	-0.987
44442.63306	B	-0.833	44442.74978	B	-0.992
44442.63514	B	-0.829	44442.75185	B	-0.992
44442.63723	B	-0.829	44442.75390	B	-0.995
44442.63932	B	-0.842	44442.75598	B	-0.989
44442.64139	B	-0.848	44442.75807	B	-0.991
44442.64348	B	-0.859	44442.76015	B	-0.990
44442.64556	B	-0.874	44442.76223	B	-0.989
44442.64764	B	-0.866	44442.76433	B	-0.992
44442.64973	B	-0.878	44442.76640	B	-0.991
44442.65181	B	-0.877	44442.76848	B	-0.996
44442.65390	B	-0.887	44442.77058	B	-0.996
44442.65598	B	-0.876	44442.77268	B	-1.003
44442.65806	B	-0.910	44442.77473	B	-0.987
44442.66014	B	-0.910	44442.77682	B	-1.000
44442.66223	B	-0.912	44442.77892	B	-0.998
44442.66433	B	-0.913	44442.78099	B	-0.992
44442.66639	B	-0.919	44442.78307	B	-0.987
44442.66848	B	-0.919	44442.78515	B	-0.990
44442.67056	B	-0.918	44442.78726	B	-1.000
44442.67267	B	-0.920	44442.78933	B	-0.993

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44442.79140	B	-0.993	44442.84140	B	-1.003
44442.79348	B	-0.995	44442.84349	B	-1.014
44442.79557	B	-0.991	44442.84557	B	-1.009
44442.79765	B	-0.998	44442.84765	B	-1.019
44442.79973	B	-0.998	44442.84974	B	-1.004
44442.80182	B	-0.996	44442.85182	B	-1.002
44442.80600	B	-1.004	44442.85396	B	-1.020
44442.80807	B	-0.994	44442.85599	B	-1.018
44442.81015	B	-1.001	44442.85807	B	-1.011
44442.81223	B	-1.005	44442.86015	B	-1.009
44442.81645	B	-0.998	44442.86224	B	-1.017
44442.81848	B	-1.001	44442.86445	B	-1.010
44442.82064	B	-1.003	44442.86640	B	-1.013
44442.82265	B	-1.002	44442.86852	B	-1.010
44442.82482	B	-0.999	44442.87059	B	-1.013
44442.82682	B	-1.001	44442.87282	B	-1.018
44442.82893	B	-1.010	44442.87474	B	-1.021
44442.83100	B	-1.006	44442.87682	B	-1.015
44442.83334	B	-1.007	44442.87890	B	-1.012
44442.83516	B	-1.003	44442.88101	B	-1.013
44442.83724	B	-0.994	44442.88307	B	-1.014
44442.83941	B	-0.998	44442.88515	B	-1.017

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44549.51993	V	-0.966	44549.63868	V	-0.701
44549.52201	V	-0.936	44549.64075	V	-0.687
44549.52618	V	-0.951	44549.64284	V	-0.698
44549.52826	V	-0.953	44549.64492	V	-0.690
44549.53034	V	-0.949	44549.64735	V	-0.681
44549.53451	V	-0.937	44549.64909	V	-0.685
44549.53659	V	-0.924	44549.65117	V	-0.668
44549.53868	V	-0.932	44549.65325	V	-0.694
44549.54078	V	-0.920	44549.65534	V	-0.689
44549.54288	V	-0.921	44549.65742	V	-0.691
44549.54495	V	-0.910	44549.65950	V	-0.692
44549.54707	V	-0.906	44549.66159	V	-0.692
44549.54914	V	-0.897	44549.66367	V	-0.683
44549.55118	V	-0.893	44549.66575	V	-0.687
44549.55326	V	-0.891	44549.66785	V	-0.682
44549.55534	V	-0.890	44549.66992	V	-0.693
44549.55740	V	-0.882	44549.67200	V	-0.686
44549.55954	V	-0.873	44549.67409	V	-0.668
44549.56163	V	-0.862	44549.67617	V	-0.704
44549.56367	V	-0.858	44549.67825	V	-0.706
44549.56576	V	-0.844	44549.68038	V	-0.709
44549.56785	V	-0.830	44549.68242	V	-0.705
44549.57001	V	-0.835	44549.68450	V	-0.705
44549.57201	V	-0.829	44549.68659	V	-0.707
44549.57409	V	-0.820	44549.68868	V	-0.709
44549.57620	V	-0.814	44549.69072	V	-0.700
44549.57832	V	-0.799	44549.69284	V	-0.705
44549.58036	V	-0.806	44549.69492	V	-0.706
44549.58244	V	-0.796	44549.69700	V	-0.722
44549.58451	V	-0.786	44549.69911	V	-0.727
44549.58659	V	-0.785	44549.70117	V	-0.724
44549.58868	V	-0.771	44549.70325	V	-0.738
44549.59076	V	-0.771	44549.70533	V	-0.740
44549.59284	V	-0.765	44549.70742	V	-0.744
44549.59492	V	-0.753	44549.70950	V	-0.765
44549.59701	V	-0.751	44549.71158	V	-0.768
44549.59909	V	-0.737	44549.71361	V	-0.779
44549.60117	V	-0.724	44549.71575	V	-0.764
44549.60326	V	-0.729	44549.71778	V	-0.786
44549.60534	V	-0.731	44549.71992	V	-0.789
44549.60742	V	-0.724	44549.72200	V	-0.788
44549.60951	V	-0.726	44549.72408	V	-0.809
44549.61159	V	-0.715	44549.72617	V	-0.814
44549.61367	V	-0.714	44550.53827	V	0.307
44549.61576	V	-0.714	44550.54342	V	0.354
44549.61784	V	-0.708	44550.54663	V	0.373
44549.61992	V	-0.706	44550.55350	V	0.447
44549.62201	V	-0.707	44550.56227	V	0.504
44549.62409	V	-0.704	44550.56666	V	0.525
44549.62617	V	-0.708	44550.57117	V	0.558
44549.62825	V	-0.693	44550.57571	V	0.594
44549.63034	V	-0.685	44550.58248	V	0.649
44549.63242	V	-0.691	44550.59138	V	0.714
44549.63454	V	-0.699	44550.59349	V	0.718
44549.63660	V	-0.708	44550.59557	V	0.724

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44550.59765	V	0.733	44549.53891	B	-0.979
44550.59975	V	0.732	44549.54100	B	-0.950
44550.60182	V	0.715	44549.54521	B	-0.969
44550.60390	V	0.710	44549.54731	B	-0.969
44550.60599	V	0.711	44549.54935	B	-0.970
44550.60807	V	0.725	44549.55141	B	-0.961
44550.61019	V	0.744	44549.55349	B	-0.948
44550.61224	V	0.759	44549.55764	B	-0.933
44550.61436	V	0.763	44549.55977	B	-0.939
44550.61640	V	0.737	44549.56186	B	-0.929
44550.61850	V	0.723	44549.56391	B	-0.917
44550.62059	V	0.738	44549.56599	B	-0.909
44550.62265	V	0.747	44549.56807	B	-0.894
44550.62474	V	0.783	44549.57025	B	-0.899
44550.62682	V	0.780	44549.57224	B	-0.897
44550.62890	V	0.730	44549.57432	B	-0.881
44550.63100	V	0.791	44549.57642	B	-0.873
44550.63307	V	0.771	44549.57853	B	-0.877
44550.63515	V	0.734	44549.58057	B	-0.877
44550.63725	V	0.712	44549.58266	B	-0.859
44550.63967	V	0.717	44549.58474	B	-0.855
44550.64178	V	0.725	44549.58682	B	-0.844
44550.64357	V	0.723	44549.58890	B	-0.838
44550.64557	V	0.717	44549.59099	B	-0.833
44550.64765	V	0.719	44549.59307	B	-0.833
44550.64974	V	0.718	44549.59515	B	-0.825
44550.65182	V	0.737	44549.59724	B	-0.813
44550.65394	V	0.750	44549.59932	B	-0.803
44550.65602	V	0.718	44549.60139	B	-0.797
44550.65813	V	0.743	44549.60349	B	-0.797
44550.66022	V	0.741	44549.60557	B	-0.789
44550.66224	V	0.721	44549.60765	B	-0.792
44550.66436	V	0.757	44549.60974	B	-0.790
44550.66640	V	0.729	44549.61182	B	-0.780
44550.66890	V	0.706	44549.61390	B	-0.782
44550.67060	V	0.722	44549.61598	B	-0.778
44550.67274	V	0.733	44549.61806	B	-0.775
44550.67502	V	0.719	44549.62016	B	-0.774
44550.68749	V	0.726	44549.62224	B	-0.778
44550.69340	V	0.726	44549.62433	B	-0.767
44550.69845	V	0.640	44549.62644	B	-0.765
44550.70281	V	0.603	44549.62849	B	-0.768
44550.70665	V	0.580	44549.63058	B	-0.755
44550.71075	V	0.560	44549.63265	B	-0.772
44550.71712	V	0.495	44549.63476	B	-0.766
44550.72094	V	0.454	44549.63682	B	-0.756
44550.72479	V	0.440	44549.63890	B	-0.753
44550.72811	V	0.440	44549.64099	B	-0.754
44549.52016	B	-1.004	44549.64307	B	-0.756
44549.52224	B	-1.004	44549.64515	B	-0.752
44549.52641	B	-1.003	44549.64755	B	-0.745
44549.52849	B	-1.005	44549.64932	B	-0.749
44549.53057	B	-1.007	44549.65140	B	-0.744
44549.53474	B	-0.993	44549.65349	B	-0.750
44549.53682	B	-0.987	44549.65557	B	-0.753

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44549.65765	B	-0.754	44550.59996	B	1.497
44549.65973	B	-0.747	44550.60205	B	1.476
44549.66182	B	-0.752	44550.60410	B	1.474
44549.66598	B	-0.752	44550.60620	B	1.472
44549.66807	B	-0.749	44550.60828	B	1.482
44549.67016	B	-0.760	44550.61039	B	1.490
44549.67222	B	-0.759	44550.61246	B	1.521
44549.67432	B	-0.754	44550.61455	B	1.525
44549.67640	B	-0.761	44550.61660	B	1.501
44549.67848	B	-0.764	44550.61872	B	1.484
44549.68060	B	-0.751	44550.62081	B	1.504
44549.68265	B	-0.772	44550.62287	B	1.494
44549.68473	B	-0.766	44550.62703	B	1.523
44549.68683	B	-0.771	44550.62913	B	1.486
44549.68891	B	-0.767	44550.63119	B	1.537
44549.69100	B	-0.783	44550.63328	B	1.520
44549.69307	B	-0.780	44550.63537	B	1.488
44549.69515	B	-0.780	44550.63747	B	1.475
44549.69724	B	-0.784	44550.63986	B	1.475
44549.69935	B	-0.788	44550.64200	B	1.479
44549.70140	B	-0.799	44550.64376	B	1.477
44549.70348	B	-0.795	44550.64578	B	1.471
44549.70558	B	-0.807	44550.64785	B	1.475
44549.70766	B	-0.821	44550.64996	B	1.473
44549.70973	B	-0.826	44550.65203	B	1.480
44549.71182	B	-0.825	44550.65417	B	1.494
44549.71384	B	-0.828	44550.65626	B	1.469
44549.71592	B	-0.838	44550.65837	B	1.486
44549.71805	B	-0.846	44550.66043	B	1.487
44549.72015	B	-0.859	44550.66244	B	1.477
44549.72223	B	-0.853	44550.66457	B	1.491
44549.72432	B	-0.865	44550.66664	B	1.475
44549.72640	B	-0.878	44550.66869	B	1.466
44550.53851	B	0.994	44550.67081	B	1.463
44550.54370	B	1.035	44550.67298	B	1.476
44550.54680	B	1.062	44550.67522	B	1.453
44550.55370	B	1.128	44550.68772	B	1.469
44550.56256	B	1.189	44550.69391	B	1.403
44550.56703	B	1.257	44550.69873	B	1.374
44550.57152	B	1.296	44550.70305	B	1.322
44550.57598	B	1.313	44550.70689	B	1.263
44550.58303	B	1.405	44550.71103	B	1.236
44550.59160	B	1.477	44550.71741	B	1.178
44550.59370	B	1.477	44550.72119	B	1.135
44550.59577	B	1.507	44550.72504	B	1.098
44550.59787	B	1.493	44550.72834	B	1.098

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43855.77733	V	0.312	43902.53838	V	0.298
43855.78196	V	0.308	43902.54271	V	0.305
43855.78792	V	0.307	43902.54820	V	0.300
43855.79244	V	0.316	43902.55725	V	0.298
43855.80604	V	0.300	43913.67844	V	0.302
43855.81148	V	0.297	43913.68338	V	0.316
43855.81813	V	0.303	43913.68872	V	0.311
43855.82398	V	0.311	43916.66051	V	0.268
43855.82976	V	0.304	43916.66551	V	0.258
43855.83891	V	0.307	43916.67014	V	0.264
43856.68459	V	0.295	43916.67500	V	0.258
43856.69183	V	0.294	43940.59829	V	0.276
43856.69634	V	0.298	43940.60286	V	0.281
43856.70357	V	0.314	43940.60680	V	0.291
43856.70936	V	0.306	43940.61686	V	0.266
43856.71944	V	0.296	43941.59348	V	0.382
43856.73147	V	0.299	43941.59769	V	0.379
43856.74964	V	0.300	43941.60159	V	0.373
43856.75404	V	0.301	43855.77774	B	-0.092
43879.66884	V	0.295	43855.78254	B	-0.091
43879.67555	V	0.277	43855.78850	B	-0.082
43879.71247	V	0.298	43855.79296	B	-0.085
43879.71814	V	0.311	43855.80644	B	-0.079
43879.72543	V	0.298	43855.81200	B	-0.086
43879.73145	V	0.305	43855.81917	B	-0.082
43879.73793	V	0.304	43855.82455	B	-0.084
43879.74436	V	0.286	43855.83057	B	-0.065
43879.74974	V	0.303	43855.83949	B	-0.101
43879.76154	V	0.310	43856.68506	B	-0.083
43882.57443	V	0.319	43856.69223	B	-0.093
43882.58161	V	0.344	43856.69680	B	-0.096
43882.58798	V	0.270	43856.70404	B	-0.086
43882.59538	V	0.265	43856.70982	B	-0.089
43882.60047	V	0.197	43856.71584	B	-0.096
43882.68785	V	0.296	43856.73193	B	-0.100
43882.69399	V	0.279	43856.75010	B	-0.089
43882.70139	V	0.248	43856.75450	B	-0.085
43882.70730	V	0.307	43879.66930	B	-0.109
43882.71551	V	0.259	43879.67602	B	-0.109
43882.74207	V	0.246	43879.71288	B	-0.079
43883.61100	V	0.237	43879.71861	B	-0.077
43883.61400	V	0.252	43879.72590	B	-0.088
43883.68998	V	0.257	43879.73186	B	-0.076
43883.69479	V	0.249	43879.73840	B	-0.081
43883.70034	V	0.251	43879.74476	B	-0.093
43883.71313	V	0.246	43879.75014	B	-0.085
43883.71816	V	0.252	43879.76195	B	-0.069
43883.72638	V	0.248	43882.57484	B	-0.055
43883.73003	V	0.249	43882.58202	B	-0.007
43883.73408	V	0.248	43882.58644	B	-0.037
43889.70159	V	0.312	43882.59590	B	-0.122
43889.70686	V	0.322	43882.60111	B	-0.148
43889.71102	V	0.309	43882.68832	B	-0.090
43889.72196	V	0.307	43882.69445	B	-0.156
43889.72572	V	0.302	43882.70186	B	-0.158

LX PER 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43882.70770	B	-0.085	43856.75502	U	-0.622
43882.71598	B	-0.149	43879.66994	U	-0.718
43882.74323	B	-0.099	43879.67642	U	-0.716
43883.61146	B	-0.154	43879.71334	U	-0.657
43883.61441	B	-0.144	43879.71907	U	-0.656
43883.69045	B	-0.129	43879.72636	U	-0.680
43883.69525	B	-0.139	43879.73261	U	-0.674
43883.70075	B	-0.142	43879.73955	U	-0.685
43883.71371	B	-0.140	43879.74528	U	-0.690
43883.71857	B	-0.136	43879.75072	U	-0.670
43883.72679	B	-0.134	43879.76276	U	-0.688
43883.73049	B	-0.148	43882.57542	U	-0.621
43883.73448	B	-0.133	43882.58248	U	-0.660
43889.70200	B	-0.075	43882.58936	U	-0.536
43889.70732	B	-0.061	43882.59637	U	-0.704
43889.71143	B	-0.069	43882.60157	U	-0.740
43889.72236	B	-0.071	43882.68878	U	-0.735
43889.72618	B	-0.070	43882.69491	U	-0.722
43902.53880	B	-0.096	43882.70232	U	-0.803
43902.54317	B	-0.094	43882.70816	U	-0.713
43902.54867	B	-0.084	43882.71661	U	-0.618
43902.55767	B	-0.090	43882.74375	U	-0.670
43913.67888	B	-0.032	43883.61192	U	-0.754
43913.68381	B	-0.042	43883.61493	U	-0.740
43913.68921	B	-0.069	43883.69102	U	-0.685
43916.66101	B	-0.120	43883.69577	U	-0.724
43916.66607	B	-0.110	43883.70121	U	-0.706
43916.67063	B	-0.106	43883.71423	U	-0.701
43916.67548	B	-0.110	43883.71903	U	-0.718
43940.59871	B	-0.114	43883.72719	U	-0.717
43940.60333	B	-0.084	43883.73095	U	-0.728
43940.60727	B	-0.088	43883.73489	U	-0.723
43940.61750	B	-0.098	43889.70252	U	-0.685
43941.59404	B	-0.014	43889.70778	U	-0.681
43941.59818	B	-0.014	43889.71195	U	-0.657
43941.60204	B	-0.014	43889.72283	U	-0.663
43855.77832	U	-0.678	43889.72665	U	-0.622
43855.78306	U	-0.687	43902.53928	U	-0.692
43855.78914	U	-0.691	43902.54361	U	-0.698
43855.79342	U	-0.697	43902.54911	U	-0.693
43855.80760	U	-0.639	43902.55810	U	-0.720
43855.81240	U	-0.621	43913.67934	U	-0.595
43855.81987	U	-0.701	43913.68428	U	-0.648
43855.82508	U	-0.695	43913.68964	U	-0.667
43855.83121	U	-0.647	43916.66160	U	-0.660
43855.84035	U	-0.681	43916.67142	U	-0.705
43856.68552	U	-0.626	43916.67603	U	-0.669
43856.69270	U	-0.635	43940.59918	U	-0.771
43856.69727	U	-0.645	43940.60378	U	-0.660
43856.70462	U	-0.676	43940.60775	U	-0.679
43856.71029	U	-0.691	43940.61799	U	-0.659
43856.71642	U	-0.682	43941.59461	U	-0.618
43856.73234	U	-0.666	43941.59864	U	-0.608
43856.74362	U	-0.663	43941.60252	U	-0.630

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HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44148.84308	V	0.289	44177.79926	V	0.300
44148.84656	V	0.305	44177.80205	V	0.308
44148.85017	V	0.303	44177.80480	V	0.288
44148.85311	V	0.305	44177.80758	V	0.312
44153.82601	V	0.283	44177.81036	V	0.295
44153.83293	V	0.291	44177.81332	V	0.294
44153.83801	V	0.283	44177.81591	V	0.294
44153.84274	V	0.283	44177.81869	V	0.295
44164.78272	V	0.294	44177.82147	V	0.301
44164.78485	V	0.295	44177.82425	V	0.315
44164.78763	V	0.293	44177.82701	V	0.294
44164.79097	V	0.297	44177.82987	V	0.313
44164.79319	V	0.294	44177.83258	V	0.302
44164.79596	V	0.271	44177.83524	V	0.301
44164.79874	V	0.287	44185.62512	V	0.287
44164.80155	V	0.299	44185.63032	V	0.297
44164.80440	V	0.304	44185.63458	V	0.315
44164.80707	V	0.309	44185.63885	V	0.287
44164.80985	V	0.297	44192.73935	V	0.295
44164.81263	V	0.300	44192.74199	V	0.286
44164.81819	V	0.306	44192.74464	V	0.295
44164.82096	V	0.299	44192.75019	V	0.312
44164.82379	V	0.301	44192.75380	V	0.307
44171.76362	V	0.293	44192.75380	V	0.307
44171.76640	V	0.292	44192.75810	V	0.308
44171.76918	V	0.286	44192.87627	V	0.314
44171.77474	V	0.292	44192.87896	V	0.323
44171.77758	V	0.306	44192.88237	V	0.309
44177.57841	V	0.295	44192.88576	V	0.285
44177.58128	V	0.288	44192.88837	V	0.306
44177.58674	V	0.295	44193.71172	V	0.302
44177.58952	V	0.284	44193.71437	V	0.290
44177.59230	V	0.304	44193.71741	V	0.276
44177.59507	V	0.281	44193.72028	V	0.281
44177.59785	V	0.293	44193.72344	V	0.307
44177.60063	V	0.294	44193.72510	V	0.294
44177.60341	V	0.296	44194.73533	V	1.013
44177.60619	V	0.301	44194.73835	V	0.988
44177.60899	V	0.290	44194.74123	V	0.996
44177.75480	V	0.282	44194.74415	V	0.977
44177.75758	V	0.296	44194.74750	V	0.953
44177.76036	V	0.302	44194.75035	V	0.939
44177.76318	V	0.302	44194.75324	V	0.937
44177.76591	V	0.299	44194.75597	V	0.911
44177.76852	V	0.297	44194.75882	V	0.906
44177.77147	V	0.279	44194.76158	V	0.877
44177.77439	V	0.292	44194.76441	V	0.871
44177.77702	V	0.295	44194.76714	V	0.859
44177.77980	V	0.292	44194.77039	V	0.840
44177.78262	V	0.297	44194.77301	V	0.825
44177.78536	V	0.301	44194.77589	V	0.817
44177.78814	V	0.290	44194.77886	V	0.809
44177.79091	V	0.299	44194.78180	V	0.771
44177.79369	V	0.295	44194.78450	V	0.752
44177.79647	V	0.303	44194.78712	V	0.755

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44194.79113	V	0.715	44259.61743	V	0.296
44194.79451	V	0.711	44259.62067	V	0.274
44194.79760	V	0.681	44259.62355	V	0.286
44194.80107	V	0.661	44259.62599	V	0.290
44194.80375	V	0.642	44259.63386	V	0.281
44194.80709	V	0.633	44259.71405	V	0.341
44194.80993	V	0.604	44259.71670	V	0.290
44194.81314	V	0.579	44259.71929	V	0.285
44194.81641	V	0.576	44259.72190	V	0.277
44194.81959	V	0.575	44259.72463	V	0.286
44194.82265	V	0.552	44259.72741	V	0.287
44194.82555	V	0.534	44260.64625	V	0.281
44194.82847	V	0.526	44260.64869	V	0.283
44194.83131	V	0.524	44269.58324	V	0.267
44194.84010	V	0.476	44269.58664	V	0.282
44194.84373	V	0.457	44269.58897	V	0.277
44194.84634	V	0.448	44269.59326	V	0.274
44194.84932	V	0.438	44269.59668	V	0.294
44194.85208	V	0.421	44269.60561	V	0.290
44194.85479	V	0.406	44269.65492	V	0.298
44194.85752	V	0.395	44269.65749	V	0.292
44194.86054	V	0.416	44269.66125	V	0.275
44194.86602	V	0.390	44269.66386	V	0.266
44194.86882	V	0.377	44269.66634	V	0.274
44194.87141	V	0.346	44269.67092	V	0.286
44194.87391	V	0.356	44273.55851	V	0.291
44194.87652	V	0.351	44273.56089	V	0.302
44194.87902	V	0.337	44273.56458	V	0.304
44194.88150	V	0.333	44273.56783	V	0.297
44198.72013	V	0.471	44273.57016	V	0.297
44198.72296	V	0.482	44273.63130	V	0.302
44198.72639	V	0.494	44273.63382	V	0.295
44198.72920	V	0.478	44273.63694	V	0.289
44198.73892	V	0.458	44273.64084	V	0.293
44198.74171	V	0.482	44273.64352	V	0.301
44198.74443	V	0.459	44273.64607	V	0.296
44198.74768	V	0.452	44273.64861	V	0.309
44198.75027	V	0.459	44273.65221	V	0.313
44198.75303	V	0.455	44273.65481	V	0.301
44204.69515	V	0.285	44273.65734	V	0.293
44204.69739	V	0.294	44273.65997	V	0.311
44204.70221	V	0.294	44273.66342	V	0.320
44204.70436	V	0.304	44273.66576	V	0.307
44225.79999	V	0.315	44273.66825	V	0.312
44225.80297	V	0.296	44274.61654	V	0.291
44225.80539	V	0.285	44274.61927	V	0.302
44225.80743	V	0.294	44274.62205	V	0.302
44225.81001	V	0.286	44274.62483	V	0.316
44225.81200	V	0.308	44274.62760	V	0.305
44240.60051	V	0.280	44274.63322	V	0.294
44240.60446	V	0.298	44274.63594	V	0.298
44240.60846	V	0.288	44274.63878	V	0.313
44240.61139	V	0.310	44274.64163	V	0.294
44240.61951	V	0.300	44274.64427	V	0.304
44240.62448	V	0.291	44274.64705	V	0.310

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44274.64982	V	0.316	44302.59049	V	0.292
44274.65260	V	0.312	44302.59430	V	0.293
44274.65538	V	0.297	44302.59709	V	0.288
44274.65816	V	0.303	44302.60549	V	0.266
44274.66096	V	0.299	44302.60790	V	0.287
44274.66371	V	0.305	44303.59763	V	0.100
44274.66649	V	0.293	44303.60283	V	0.272
44274.67204	V	0.284	44303.60711	V	0.306
44274.67482	V	0.288	44303.60923	V	0.313
44274.67760	V	0.314	44303.61227	V	0.269
44274.68038	V	0.283	44303.85426	V	-0.179
44274.68315	V	0.300	44303.85701	V	-0.186
44274.68593	V	0.306	44303.85978	V	-0.180
44274.68871	V	0.303	44303.86256	V	-0.180
44276.56251	V	0.266	44303.86534	V	-0.188
44276.56497	V	0.248	44303.86812	V	-0.181
44276.56738	V	0.259	44303.87089	V	-0.180
44276.56988	V	0.273	44303.87367	V	-0.192
44276.57115	V	0.286	44303.87681	V	-0.175
44276.57406	V	0.267	44303.87923	V	-0.187
44277.53801	V	0.262	44303.88200	V	-0.184
44277.54056	V	0.272	44303.88478	V	-0.193
44277.54315	V	0.250	44303.88756	V	-0.195
44277.54597	V	0.254	44303.89035	V	-0.199
44277.54856	V	0.251	44303.89311	V	-0.199
44277.55118	V	0.253	44303.89589	V	-0.208
44277.55455	V	0.265	44303.89867	V	-0.207
44290.61097	V	0.315	44303.90146	V	-0.224
44290.61388	V	0.282	44303.90422	V	-0.178
44290.61737	V	0.293	44303.90700	V	-0.211
44290.62114	V	0.289	44303.91263	V	-0.198
44290.62384	V	0.296	44320.57079	V	0.310
44291.55963	V	0.268	44320.57360	V	0.294
44291.56252	V	0.241	44320.57609	V	0.300
44291.56525	V	0.287	44320.57873	V	0.314
44291.56843	V	0.260	44320.58116	V	0.279
44291.57239	V	0.267	44324.56458	V	0.280
44291.57510	V	0.266	44324.56692	V	0.279
44291.57830	V	0.256	44324.57053	V	0.294
44291.58129	V	0.258	44324.57289	V	0.284
44291.58407	V	0.272	44148.84360	B	-0.097
44291.58695	V	0.265	44148.84700	B	-0.091
44291.59783	V	0.282	44148.85065	B	-0.085
44291.60154	V	0.266	44148.85361	B	-0.076
44291.60463	V	0.260	44153.82640	B	-0.096
44291.60776	V	0.236	44153.83335	B	-0.097
44291.61111	V	0.264	44153.83839	B	-0.110
44302.56472	V	0.292	44153.84317	B	-0.107
44302.56794	V	0.288	44164.78242	B	-0.089
44302.57119	V	0.288	44164.78514	B	-0.095
44302.57437	V	0.265	44164.78791	B	-0.094
44302.57763	V	0.290	44164.79071	B	-0.103
44302.58113	V	0.298	44164.79347	B	-0.101
44302.58363	V	0.295	44164.79625	B	-0.098
44302.58804	V	0.285	44164.79903	B	-0.083

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44164.80184	B	-0.083	44185.63078	B	-0.083
44164.80467	B	-0.100	44185.63491	B	-0.091
44164.80736	B	-0.089	44185.63924	B	-0.093
44164.81014	B	-0.107	44192.73958	B	-0.099
44164.81292	B	-0.085	44192.74227	B	-0.110
44164.81848	B	-0.100	44192.74490	B	-0.090
44164.82125	B	-0.093	44192.75048	B	-0.072
44164.82403	B	-0.083	44192.75460	B	-0.073
44171.76392	B	-0.096	44192.75850	B	-0.085
44171.76669	B	-0.092	44192.87660	B	-0.062
44171.76948	B	-0.089	44192.87925	B	0.013
44171.77502	B	-0.111	44192.88265	B	-0.056
44171.77788	B	-0.103	44192.88604	B	-0.094
44177.57870	B	-0.096	44192.88867	B	-0.076
44177.58153	B	-0.098	44193.71198	B	-0.114
44177.58703	B	-0.089	44193.71465	B	-0.093
44177.58981	B	-0.092	44193.71771	B	-0.098
44177.59259	B	-0.092	44193.72056	B	-0.105
44177.59536	B	-0.081	44193.72449	B	-0.113
44177.59814	B	-0.098	44194.73563	B	0.803
44177.60093	B	-0.084	44194.73864	B	0.783
44177.60370	B	-0.094	44194.74153	B	0.783
44177.60648	B	-0.101	44194.74444	B	0.757
44177.60931	B	-0.106	44194.74780	B	0.724
44177.75509	B	-0.095	44194.75063	B	0.723
44177.75787	B	-0.109	44194.75356	B	0.684
44177.76065	B	-0.102	44194.75628	B	0.675
44177.76346	B	-0.103	44194.75912	B	0.652
44177.76620	B	-0.100	44194.76186	B	0.649
44177.76920	B	-0.104	44194.76470	B	0.619
44177.77176	B	-0.085	44194.76744	B	0.604
44177.77466	B	-0.093	44194.77068	B	0.573
44177.77733	B	-0.099	44194.77332	B	0.551
44177.78009	B	-0.100	44194.77617	B	0.524
44177.78289	B	-0.102	44194.77915	B	0.500
44177.78565	B	-0.101	44194.78210	B	0.495
44177.78843	B	-0.087	44194.78479	B	0.466
44177.79120	B	-0.087	44194.78741	B	0.461
44177.79398	B	-0.091	44194.79145	B	0.414
44177.79676	B	-0.090	44194.79481	B	0.379
44177.79953	B	-0.111	44194.79794	B	0.372
44177.80231	B	-0.094	44194.80136	B	0.335
44177.80509	B	-0.101	44194.80406	B	0.326
44177.80787	B	-0.094	44194.80741	B	0.312
44177.81065	B	-0.094	44194.81025	B	0.270
44177.81358	B	-0.087	44194.81346	B	0.250
44177.81620	B	-0.096	44194.81673	B	0.242
44177.81898	B	-0.094	44194.81991	B	0.218
44177.82176	B	-0.100	44194.82297	B	0.204
44177.82454	B	-0.098	44194.82584	B	0.188
44177.82732	B	-0.110	44194.82878	B	0.171
44177.83015	B	-0.097	44194.83163	B	0.164
44177.83287	B	-0.097	44194.84038	B	0.120
44177.83554	B	-0.092	44194.84400	B	0.092
44185.62542	B	-0.100	44194.84665	B	0.068

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44194.84964	B	0.062	44269.59697	B	-0.114
44194.85242	B	0.063	44269.60588	B	-0.091
44194.85513	B	0.040	44269.65536	B	-0.097
44194.85782	B	0.023	44269.65783	B	-0.097
44194.86103	B	0.069	44269.66160	B	-0.092
44194.86632	B	0.037	44269.66414	B	-0.111
44194.86910	B	-0.006	44269.66661	B	-0.080
44194.87168	B	-0.003	44269.67125	B	-0.108
44194.87420	B	-0.028	44273.55878	B	-0.094
44194.87680	B	-0.028	44273.56117	B	-0.092
44194.87928	B	-0.025	44273.56486	B	-0.096
44194.88178	B	-0.052	44273.56809	B	-0.085
44198.72041	B	0.090	44273.57041	B	-0.093
44198.72323	B	0.066	44273.62896	B	-0.069
44198.72671	B	0.066	44273.63159	B	-0.083
44198.72948	B	0.066	44273.63414	B	-0.071
44198.73921	B	0.047	44273.63727	B	-0.097
44198.74200	B	0.054	44273.64115	B	-0.089
44198.74472	B	0.063	44273.64385	B	-0.067
44198.74795	B	0.047	44273.64637	B	-0.076
44198.75056	B	0.052	44273.64888	B	-0.078
44198.75332	B	0.028	44273.65250	B	-0.061
44204.69541	B	-0.090	44273.65507	B	-0.070
44204.69760	B	-0.095	44273.65766	B	-0.080
44204.70243	B	-0.103	44273.66023	B	-0.074
44204.70459	B	-0.092	44273.66369	B	-0.064
44225.80022	B	-0.072	44273.66609	B	-0.090
44225.80325	B	-0.079	44273.66853	B	-0.080
44225.80561	B	-0.074	44274.61681	B	-0.091
44225.80767	B	-0.066	44274.61956	B	-0.085
44225.81024	B	-0.080	44274.62234	B	-0.087
44225.81222	B	-0.067	44274.62512	B	-0.072
44240.60082	B	-0.101	44274.62789	B	-0.082
44240.60474	B	-0.105	44274.63349	B	-0.080
44240.60876	B	-0.086	44274.63623	B	-0.080
44240.61167	B	-0.083	44274.63904	B	-0.073
44240.61980	B	-0.089	44274.64187	B	-0.082
44240.62474	B	-0.085	44274.64456	B	-0.087
44259.61772	B	-0.101	44274.64734	B	-0.086
44259.62098	B	-0.107	44274.65011	B	-0.078
44259.62385	B	-0.098	44274.65289	B	-0.060
44259.62625	B	-0.105	44274.65567	B	-0.055
44259.63412	B	-0.105	44274.65845	B	-0.073
44259.71434	B	-0.033	44274.66125	B	-0.081
44259.71699	B	-0.076	44274.66400	B	-0.081
44259.71960	B	-0.085	44274.66678	B	-0.083
44259.72219	B	-0.094	44274.67233	B	-0.073
44259.72493	B	-0.100	44274.67511	B	-0.084
44259.72767	B	-0.079	44274.67793	B	-0.075
44260.64653	B	-0.098	44274.68067	B	-0.073
44260.64897	B	-0.113	44274.68344	B	-0.058
44269.58354	B	-0.108	44274.66622	B	-0.042
44269.58690	B	-0.116	44274.68900	B	-0.046
44269.58924	B	-0.125	44276.56278	B	-0.125
44269.59354	B	-0.103	44276.56523	B	-0.136

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44276.56764	B	-0.134	44303.87708	B	-0.104
44276.57017	B	-0.112	44303.87951	B	-0.116
44276.57154	B	-0.107	44303.88229	B	-0.103
44276.57433	B	-0.125	44303.88507	B	-0.100
44277.54064	B	-0.113	44303.88785	B	-0.101
44277.54345	B	-0.132	44303.89063	B	-0.115
44277.54630	B	-0.127	44303.89340	B	-0.110
44277.54884	B	-0.114	44303.89618	B	-0.115
44277.55484	B	-0.119	44303.89899	B	-0.127
44290.61147	B	-0.085	44303.90175	B	-0.124
44290.61420	B	-0.105	44303.90451	B	-0.111
44290.61769	B	-0.105	44303.90729	B	-0.156
44290.62144	B	-0.081	44303.91294	B	-0.141
44290.62416	B	-0.093	44320.57106	B	-0.078
44291.56007	B	-0.137	44320.57388	B	-0.084
44291.56284	B	-0.122	44320.57636	B	-0.064
44291.56583	B	-0.113	44320.57899	B	-0.048
44291.56871	B	-0.127	44320.58143	B	-0.089
44291.57271	B	-0.126	44324.56484	B	-0.073
44291.57597	B	-0.110	44324.56717	B	-0.081
44291.57860	B	-0.117	44324.57083	B	-0.014
44291.58161	B	-0.118	44324.57317	B	-0.078
44291.58440	B	-0.111	44148.84410	U	-0.723
44291.58725	B	-0.108	44148.84747	U	-0.721
44291.59812	B	-0.085	44148.85111	U	-0.717
44291.60205	B	-0.133	44148.85405	U	-0.689
44291.60495	B	-0.119	44153.82681	U	-0.685
44291.60812	B	-0.142	44153.83373	U	-0.705
44291.61164	B	-0.109	44153.83679	U	-0.723
44302.56500	B	-0.105	44153.84355	U	-0.739
44302.56819	B	-0.098	44164.78210	U	-0.681
44302.57145	B	-0.107	44164.78821	U	-0.686
44302.57465	B	-0.106	44164.79041	U	-0.736
44302.57791	B	-0.081	44164.79376	U	-0.706
44302.58142	B	-0.080	44164.79654	U	-0.676
44302.58392	B	-0.070	44164.79932	U	-0.670
44302.58833	B	-0.111	44164.80216	U	-0.637
44302.59080	B	-0.100	44164.80496	U	-0.694
44302.59470	B	-0.092	44164.80765	U	-0.695
44302.59756	B	-0.087	44164.81043	U	-0.676
44302.60578	B	-0.086	44164.81321	U	-0.676
44302.60818	B	-0.082	44164.81877	U	-0.689
44303.59791	B	-0.188	44164.82158	U	-0.717
44303.60311	B	-0.108	44164.82430	U	-0.734
44303.60737	B	-0.045	44171.76420	U	-0.691
44303.60950	B	-0.075	44171.76698	U	-0.687
44303.61254	B	-0.128	44171.76977	U	-0.700
44303.85453	B	-0.114	44171.77531	U	-0.676
44303.85729	B	-0.104	44171.77820	U	-0.700
44303.86007	B	-0.096	44177.57899	U	-0.725
44303.86285	B	-0.104	44177.58178	U	-0.789
44303.86563	B	-0.117	44177.58732	U	-0.694
44303.86840	B	-0.093	44177.59010	U	-0.691
44303.87118	B	-0.103	44177.59288	U	-0.718
44303.87396	B	-0.110	44177.59565	U	-0.686

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44177.59843	U	-0.701	44194.73595	U	0.564
44177.60121	U	-0.696	44194.73892	U	0.461
44177.60399	U	-0.706	44194.74183	U	0.419
44177.60676	U	-0.687	44194.74474	U	0.420
44177.60961	U	-0.717	44194.74829	U	0.407
44177.75538	U	-0.696	44194.75092	U	0.409
44177.75816	U	-0.663	44194.75388	U	0.367
44177.76095	U	-0.714	44194.75658	U	0.338
44177.76374	U	-0.717	44194.75947	U	0.282
44177.76649	U	-0.702	44194.76216	U	0.256
44177.76944	U	-0.687	44194.76501	U	0.281
44177.77205	U	-0.679	44194.76778	U	0.239
44177.77505	U	-0.674	44194.77098	U	0.155
44177.77760	U	-0.709	44194.77363	U	0.128
44177.78038	U	-0.688	44194.77648	U	0.111
44177.78316	U	-0.679	44194.77945	U	0.048
44177.78594	U	-0.661	44194.78241	U	0.047
44177.78874	U	-0.664	44194.78509	U	0.017
44177.79149	U	-0.679	44194.78771	U	0.027
44177.79427	U	-0.669	44194.79182	U	-0.078
44177.79705	U	-0.687	44194.79511	U	0.066
44177.79981	U	-0.698	44194.79823	U	-0.134
44177.80260	U	-0.708	44194.80168	U	-0.124
44177.80538	U	-0.711	44194.80436	U	-0.173
44177.80816	U	-0.696	44194.80771	U	-0.216
44177.81166	U	-0.661	44194.81060	U	-0.287
44177.81382	U	-0.688	44194.81420	U	-0.302
44177.81649	U	-0.674	44194.81706	U	-0.306
44177.81927	U	-0.677	44194.82020	U	-0.310
44177.82205	U	-0.667	44194.82330	U	-0.339
44177.82482	U	-0.703	44194.82617	U	-0.385
44177.82760	U	-0.686	44194.82912	U	-0.371
44177.83044	U	-0.689	44194.83198	U	-0.381
44177.83316	U	-0.683	44194.84070	U	-0.418
44177.83594	U	-0.680	44194.84434	U	-0.477
44185.62572	U	-0.686	44194.84695	U	-0.494
44185.63115	U	-0.717	44194.84995	U	-0.503
44185.63528	U	-0.670	44194.85281	U	-0.488
44185.63958	U	-0.688	44194.85542	U	-0.506
44192.73987	U	-0.668	44194.85811	U	-0.590
44192.74253	U	-0.720	44194.86131	U	-0.557
44192.74517	U	-0.708	44194.86662	U	-0.562
44192.75083	U	-0.691	44194.86936	U	-0.569
44192.75497	U	-0.664	44194.87197	U	-0.594
44192.75901	U	-0.701	44194.87448	U	-0.602
44192.87688	U	-0.691	44194.87708	U	-0.558
44192.87969	U	-0.628	44194.87956	U	-0.591
44192.88291	U	-0.624	44194.88205	U	-0.663
44192.88632	U	-0.747	44198.72070	U	-0.437
44192.88896	U	-0.729	44198.72351	U	-0.587
44193.71227	U	-0.626	44198.72703	U	-0.597
44193.71495	U	-0.573	44198.72980	U	-0.593
44193.71797	U	-0.644	44198.73951	U	-0.595
44193.72095	U	-0.682	44198.74231	U	-0.559
44193.72562	U	-0.716	44198.74498	U	-0.559

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44198.74827	U	-0.554	44273.64668	U	-0.706
44198.75086	U	-0.546	44273.64916	U	-0.654
44198.75362	U	-0.553	44273.65283	U	-0.727
44204.69562	U	-0.684	44273.65534	U	-0.703
44204.69781	U	-0.719	44273.65800	U	-0.691
44204.70263	U	-0.674	44273.66051	U	-0.716
44204.70481	U	-0.694	44273.66399	U	-0.649
44225.80043	U	-0.631	44273.66639	U	-0.627
44225.80350	U	-0.606	44273.66883	U	-0.672
44225.80583	U	-0.663	44274.61707	U	-0.739
44225.80791	U	-0.667	44274.61985	U	-0.752
44225.81046	U	-0.637	44274.62263	U	-0.711
44225.81245	U	-0.681	44274.62540	U	-0.679
44240.60111	U	-0.708	44274.62818	U	-0.669
44240.60505	U	-0.660	44274.63380	U	-0.706
44240.60905	U	-0.670	44274.63651	U	-0.716
44240.61199	U	-0.719	44274.63932	U	-0.725
44240.62008	U	-0.650	44274.64213	U	-0.678
44240.62504	U	-0.712	44274.64485	U	-0.678
44259.61805	U	-0.698	44274.64764	U	-0.709
44259.62127	U	-0.719	44274.65040	U	-0.730
44259.62412	U	-0.719	44274.65318	U	-0.685
44259.62652	U	-0.702	44274.65596	U	-0.639
44259.63447	U	-0.737	44274.66152	U	-0.673
44259.71463	U	-0.652	44274.66429	U	-0.665
44259.71727	U	-0.620	44274.66707	U	-0.679
44259.71988	U	-0.683	44274.67262	U	-0.647
44259.72247	U	-0.689	44274.67540	U	-0.796
44259.72521	U	-0.637	44274.67821	U	-0.758
44259.72796	U	-0.648	44274.68096	U	-0.627
44260.64681	U	-0.745	44274.68373	U	-0.708
44260.64923	U	-0.732	44274.68651	U	-0.667
44269.58381	U	-0.697	44274.68929	U	-0.598
44269.58718	U	-0.752	44276.56305	U	-0.735
44269.58952	U	-0.746	44276.56549	U	-0.747
44269.59379	U	-0.636	44276.56792	U	-0.710
44269.59724	U	-0.677	44276.57045	U	-0.669
44269.60617	U	-0.692	44276.57183	U	-0.710
44269.65566	U	-0.704	44276.57462	U	-0.748
44269.65815	U	-0.685	44277.53853	U	-0.774
44269.66190	U	-0.714	44277.54111	U	-0.736
44269.66443	U	-0.684	44277.54374	U	-0.778
44269.66691	U	-0.702	44277.54659	U	-0.752
44269.67154	U	-0.709	44277.54911	U	-0.667
44273.55904	U	-0.715	44277.55180	U	-0.704
44273.56145	U	-0.711	44277.55513	U	-0.758
44273.56515	U	-0.676	44290.61178	U	-0.697
44273.56837	U	-0.681	44290.61450	U	-0.650
44273.57070	U	-0.710	44290.61805	U	-0.657
44273.62924	U	-0.711	44290.62176	U	-0.702
44273.63188	U	-0.726	44290.62447	U	-0.707
44273.63444	U	-0.681	44291.56036	U	-0.739
44273.63756	U	-0.693	44291.56315	U	-0.725
44273.64146	U	-0.700	44291.56611	U	-0.675
44273.64412	U	-0.692	44291.56904	U	-0.758

LX PER 1979-1980

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
44291.57300	U	-0.705	44303.85481	U	-0.067
44291.57626	U	-0.732	44303.85758	U	-0.051
44291.57903	U	-0.701	44303.86036	U	-0.022
44291.58193	U	-0.697	44303.86314	U	-0.028
44291.58470	U	-0.728	44303.86592	U	-0.039
44291.58757	U	-0.695	44303.86869	U	-0.022
44291.59846	U	-0.694	44303.87147	U	-0.035
44291.60237	U	-0.723	44303.87425	U	-0.019
44291.60557	U	-0.707	44303.87733	U	-0.029
44291.60848	U	-0.718	44303.87980	U	-0.022
44291.61192	U	-0.713	44303.88258	U	-0.005
44302.56526	U	-0.774	44303.88536	U	-0.035
44302.56847	U	-0.733	44303.88814	U	-0.012
44302.57171	U	-0.732	44303.89091	U	-0.039
44302.57493	U	-0.727	44303.89369	U	-0.012
44302.57819	U	-0.686	44303.89648	U	-0.049
44302.58170	U	-0.712	44303.89925	U	-0.056
44302.58420	U	-0.672	44303.90206	U	-0.073
44302.58861	U	-0.701	44303.90480	U	-0.080
44302.59108	U	-0.727	44303.90758	U	-0.051
44302.59498	U	-0.728	44303.91318	U	-0.018
44302.59786	U	-0.721	44320.57137	U	-0.684
44302.60606	U	-0.672	44320.57414	U	-0.682
44302.60845	U	-0.695	44320.57662	U	-0.672
44303.59815	U	-0.796	44320.57928	U	-0.639
44303.60338	U	-0.672	44320.58169	U	-0.643
44303.60764	U	-0.645	44324.56510	U	-0.650
44303.60975	U	-0.591	44324.56745	U	-0.670
44303.61281	U	-0.694	44324.57108	U	-0.705
			44324.57343	U	-0.728

TY PYX 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43889.75939	V	0.530	43953.63082	V	0.546
43889.76495	V	0.539	43953.63593	V	0.552
43889.76889	V	0.543	43953.64003	V	0.554
43889.77467	V	0.539	43953.64444	V	0.542
43889.77861	V	0.529	43958.57404	V	0.602
43889.79186	V	0.538	43958.57810	V	0.587
43889.79580	V	0.551	43958.58155	V	0.584
43889.80245	V	0.550	43960.54886	V	0.541
43889.80633	V	0.543	43960.55348	V	0.545
43889.81148	V	0.527	43960.55696	V	0.547
43889.81547	V	0.528	43960.56046	V	0.541
43905.73623	V	0.572	43889.75986	B	0.237
43905.74069	V	0.574	43889.76541	B	0.250
43905.74808	V	0.578	43889.76935	B	0.245
43905.75187	V	0.586	43889.77508	B	0.242
43905.75617	V	0.579	43889.77907	B	0.245
43905.76040	V	0.569	43889.79232	B	0.243
43913.71177	V	0.535	43889.79626	B	0.243
43913.71842	V	0.527	43889.80286	B	0.243
43913.72317	V	0.536	43889.80679	B	0.235
43913.73089	V	0.518	43889.81188	B	0.230
43916.70383	V	0.539	43889.81588	B	0.244
43916.70784	V	0.534	43905.73687	B	0.299
43916.71249	V	0.541	43905.74121	B	0.288
43917.70349	V	0.549	43905.74856	B	0.286
43917.71315	V	0.541	43905.75239	B	0.283
43917.73022	V	0.532	43905.75667	B	0.283
43924.68826	V	0.588	43905.76085	B	0.279
43924.69422	V	0.600	43913.71218	B	0.248
43924.70216	V	0.597	43913.71891	B	0.261
43924.70789	V	0.569	43913.72361	B	0.249
43924.71562	V	0.598	43913.73132	B	0.226
43932.65452	V	0.549	43916.70438	B	0.249
43932.66135	V	0.543	43916.70830	B	0.241
43932.66536	V	0.555	43916.71304	B	0.250
43940.63561	V	0.567	43917.70390	B	0.264
43940.63952	V	0.568	43917.71353	B	0.220
43940.64525	V	0.580	43917.73058	B	0.233
43941.63231	V	0.537	43924.68863	B	0.286
43941.63628	V	0.528	43924.69460	B	0.296
43941.64047	V	0.542	43924.70252	B	0.312
43941.64407	V	0.531	43924.70823	B	0.283
43942.62779	V	0.583	43924.71601	B	0.299
43942.64299	V	0.552	43932.65509	B	0.271
43942.69093	V	0.608	43932.66180	B	0.253
43946.62035	V	0.596	43932.66581	B	0.262
43946.62671	V	0.570	43940.63607	B	0.294
43946.63833	V	0.567	43940.64001	B	0.267
43946.64359	V	0.578	43940.64567	B	0.297
43946.64760	V	0.577	43941.63287	B	0.223
43952.60440	V	0.590	43941.63679	B	0.231
43952.60853	V	0.572	43941.64095	B	0.235
43952.61351	V	0.596	43941.64450	B	0.243
43952.61869	V	0.566	43942.62821	B	0.286
43952.62250	V	0.558	43942.64342	B	0.275

TY PYX 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43942.69136	B	0.337	43916.70874	U	-0.375
43946.62087	B	0.341	43916.71363	U	-0.358
43946.62718	B	0.150	43917.70434	U	-0.278
43946.63907	B	0.277	43917.71389	U	-0.312
43946.64418	B	0.300	43917.73094	U	-0.315
43946.64809	B	0.298	43924.68900	U	-0.250
43952.60489	B	0.300	43924.69493	U	-0.228
43952.60898	B	0.282	43924.70289	U	-0.264
43952.61394	B	0.290	43924.70862	U	-0.262
43952.61916	B	0.308	43924.71640	U	-0.232
43952.62295	B	0.270	43932.65556	U	-0.269
43953.63152	B	0.253	43932.66225	U	-0.294
43953.63661	B	0.248	43932.66631	U	-0.276
43953.64073	B	0.247	43940.63653	U	-0.200
43953.64519	B	0.264	43940.64046	U	-0.269
43958.57447	B	0.314	43940.64614	U	-0.316
43958.57854	B	0.299	43941.63371	U	-0.336
43958.58200	B	0.298	43941.63727	U	-0.353
43960.54925	B	0.241	43941.64137	U	-0.326
43960.55393	B	0.253	43941.64495	U	-0.276
43960.55739	B	0.238	43942.62859	U	-0.260
43960.56085	B	0.240	43942.64387	U	-0.268
43889.76026	U	-0.320	43942.69177	U	-0.295
43889.76588	U	-0.302	43946.62130	U	-0.132
43889.76987	U	-0.326	43946.62766	U	-0.301
43889.77554	U	-0.420	43946.63959	U	-0.271
43889.77953	U	-0.336	43946.64474	U	-0.257
43889.79273	U	-0.308	43946.64856	U	-0.238
43889.79672	U	-0.325	43952.60536	U	-0.247
43889.80332	U	-0.316	43952.60945	U	-0.276
43889.80725	U	-0.346	43952.61445	U	-0.249
43889.81235	U	-0.324	43952.61967	U	-0.102
43889.81640	U	-0.278	43952.62344	U	-0.236
43905.73731	U	-0.258	43953.63256	U	-0.294
43905.74175	U	-0.252	43953.63718	U	-0.280
43905.74906	U	-0.278	43953.64128	U	-0.299
43905.75285	U	-0.266	43953.64577	U	-0.309
43905.75744	U	-0.242	43958.57491	U	-0.184
43905.76132	U	-0.261	43958.57896	U	-0.245
43913.71266	U	-0.296	43958.58241	U	-0.215
43913.72418	U	-0.301	43960.54968	U	-0.328
43913.73184	U	-0.327	43960.55441	U	-0.290
43916.70482	U	-0.300	43960.55789	U	-0.298
			43960.56127	U	-0.300

V711 TAU 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43902.64365	V	1.541	43916.59306	B	1.826
43902.64946	V	1.533	43916.59703	B	1.816
43905.58208	V	1.538	43916.60355	B	1.821
43905.58603	V	1.548	43920.54631	B	1.998
43905.59155	V	1.542	43920.55236	B	2.001
43905.59718	V	1.542	43920.55722	B	1.996
43913.59159	V	1.482	43940.54814	B	2.005
43913.59529	V	1.489	43940.55317	B	2.000
43913.60059	V	1.508	43940.55696	B	2.065
43913.60549	V	1.492	43941.54481	B	1.831
43916.58841	V	1.498	43941.55008	B	1.828
43916.59255	V	1.487	43902.64469	U	2.266
43916.59652	V	1.493	43902.65065	U	2.264
43916.60302	V	1.491	43905.58311	U	2.270
43920.54586	V	1.666	43905.58694	U	2.277
43920.55164	V	1.688	43905.59253	U	2.281
43920.55650	V	1.678	43905.59816	U	2.279
43940.54758	V	1.694	43913.59248	U	2.194
43940.55272	V	1.687	43913.59623	U	2.241
43940.55649	V	1.692	43913.60146	U	2.271
43941.54440	V	1.507	43913.60638	U	2.184
43941.54967	V	1.511	43916.58353	U	2.231
43902.64412	B	1.852	43916.58943	U	2.257
43902.65021	B	1.853	43916.59355	U	2.232
43905.58265	B	1.867	43916.59753	U	2.212
43905.58652	B	1.879	43916.60406	U	2.224
43905.59766	B	1.873	43920.54677	U	2.861
43913.59201	B	1.805	43920.55290	U	2.423
43913.59575	B	1.819	43920.55781	U	2.397
43913.60101	B	1.834	43940.54858	U	2.390
43913.60592	B	1.804	43940.55363	U	2.396
43916.58309	B	1.811	43940.55738	U	2.524
43916.58894	B	1.827	43941.54519	U	2.235
			43941.55050	U	2.243

RW UMA 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43940.78016	V	0.904	43953.71745	B	1.072
43940.78564	V	0.930	43958.67332	B	1.128
43940.79179	V	0.907	43958.67708	B	1.121
43952.70718	V	0.952	43958.68071	B	1.114
43952.71194	V	0.937	43958.68465	B	1.154
43952.71708	V	0.976	43960.72652	B	1.096
43952.72225	V	0.953	43960.73030	B	1.065
43953.70191	V	0.919	43960.73418	B	1.055
43953.70681	V	0.902	43960.73815	B	1.073
43953.71224	V	0.927	43940.78156	U	1.099
43953.71701	V	0.915	43940.78677	U	1.115
43958.67287	V	0.985	43940.79260	U	1.090
43958.67660	V	0.999	43952.70843	U	1.105
43958.68028	V	1.010	43952.71289	U	1.184
43958.68425	V	1.000	43952.71793	U	1.140
43960.72600	V	0.917	43952.72327	U	1.129
43960.72981	V	0.900	43953.70777	U	1.101
43960.73372	V	0.927	43953.71322	U	1.104
43960.73770	V	0.921	43953.71789	U	1.141
43940.78099	B	1.026	43958.67374	U	1.185
43940.78619	B	1.049	43958.67750	U	1.150
43940.79220	B	1.062	43958.68112	U	1.167
43952.71238	B	1.058	43958.68507	U	1.185
43952.71750	B	1.072	43960.72699	U	1.110
43952.72268	B	1.100	43960.73078	U	1.140
43953.70727	B	1.055	43960.73468	U	1.113
43953.71275	B	1.069	43960.73861	U	1.108

RS UMI 1978-1979

HELIO. J.D.	FILTER	V-C	HELIO. J.D.	FILTER	V-C
43941.89505	V	-0.179	43960.83753	B	0.242
43941.92365	V	-0.123	43960.84144	B	0.214
43941.93216	V	-0.102	43960.84797	B	0.243
43941.93902	V	-0.126	43960.85655	B	0.241
43941.94547	V	-0.110	43960.86104	B	0.282
43953.73414	V	-0.125	43960.86557	B	0.308
43953.74071	V	-0.151	43960.87248	B	0.279
43953.74674	V	-0.155	43960.87775	B	0.305
43953.75279	V	-0.157	43960.88774	B	0.320
43960.78660	V	0.225	43960.89547	B	0.316
43960.79576	V	0.236	43960.90228	B	0.299
43960.80304	V	0.297	43960.90878	B	0.298
43960.80711	V	0.267	43960.91660	B	0.343
43960.81288	V	0.260	43961.79023	B	-0.341
43960.82042	V	0.280	43961.79479	B	-0.321
43960.82440	V	0.283	43961.79502	B	-0.335
43960.82854	V	0.290	43961.80348	B	-0.350
43960.83567	V	0.305	43941.90029	U	-0.829
43960.83711	V	0.319	43941.92453	U	-0.884
43960.84748	V	0.323	43941.93319	U	-0.868
43960.85605	V	0.352	43941.93990	U	-0.815
43960.86059	V	0.334	43941.94638	U	-0.927
43960.86508	V	0.353	43953.73499	U	-0.900
43960.87207	V	0.358	43953.74164	U	-0.932
43960.87730	V	0.357	43953.74767	U	-0.916
43960.88729	V	0.368	43953.75396	U	-0.854
43960.89498	V	0.370	43960.78758	U	-0.196
43960.90066	V	0.405	43960.79257	U	-0.208
43960.90827	V	0.409	43960.79667	U	-0.216
43960.91616	V	0.399	43960.80404	U	-0.102
43961.78972	V	-0.088	43960.80811	U	-0.198
43961.79430	V	-0.101	43960.81384	U	-0.267
43961.79855	V	-0.103	43960.82137	U	-0.222
43961.80302	V	-0.086	43960.82528	U	-0.266
43941.89955	B	-0.325	43960.82947	U	-0.136
43941.92405	B	-0.377	43960.83659	U	-0.223
43941.93271	B	-0.360	43960.83808	U	-0.180
43941.93947	B	-0.369	43960.84190	U	-0.152
43941.94598	B	-0.357	43960.84845	U	-0.100
43953.73454	B	-0.392	43960.85701	U	-0.099
43953.74116	B	-0.394	43960.86145	U	-0.097
43953.74720	B	-0.382	43960.86604	U	0.055
43953.75339	B	-0.392	43960.87288	U	-0.052
43960.78708	B	0.089	43960.87818	U	0.066
43960.79206	B	0.099	43960.88821	U	0.086
43960.79623	B	0.120	43960.89593	U	0.032
43960.80351	B	0.179	43960.90274	U	-0.026
43960.80754	B	0.143	43960.90926	U	0.137
43960.81337	B	0.181	43960.91706	U	0.108
43960.82089	B	0.188	43961.79085	U	-0.876
43960.82485	B	0.178	43961.79530	U	-0.765
43960.82898	B	0.200	43961.79953	U	-0.820
43960.83612	B	0.239	43961.80397	U	-0.841

BIOGRAPHICAL SKETCH

Daniel Bruce Caton was born on July 1, 1951, to Earl D. and Elsie L. Caton in Tampa, Florida. He attended public school in Tampa and continued his education there at the University of South Florida. After receiving B.A. degrees in Astronomy and Physics he stayed on to receive his M.A. in astronomy. In summer of 1976 he married Susan E. Hatcher and enrolled in graduate school at the University of Florida. A year later he and Susan moved to Gainesville. He expects to receive the degree of Doctor of Philosophy in August of 1981, and to accept a faculty position at Appalachian State University.

I certify that I have read this study and that in my opinion it conforms to acceptable standards of scholarly presentation and is fully adequate, in scope and quality, as a dissertation for the degree of Doctor of Philosophy.

John P. Oliver, Chairman
Associate Professor of Astronomy

I certify that I have read this study and that in my opinion it conforms to acceptable standards of scholarly presentation and is fully adequate, in scope and quality, as a dissertation for the degree of Doctor of Philosophy.

Robert E. Wilson
Professor of Astronomy

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Haywood C. Smith,
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Stephen T. Gottesman
by Howard L Cohen

Stephen T. Gottesman,
Associate Professor of Astronomy

I certify that I have read this study and that in my opinion it conforms to acceptable standards of scholarly presentation and is fully adequate, in scope and quality, as a dissertation for the degree of Doctor of Philosophy.

Douglas L. Smith,
Associate Professor of Geology

This dissertation was submitted to the Graduate Faculty of the Department of Astronomy in the College of Liberal Arts and Sciences and to the Graduate Council, and was accepted as partial fulfillment of the requirements for the degree of Doctor of Philosophy.

August, 1981

Dean for Graduate Studies and Research

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